



A Weekly Journal of the Chemical and Drug Trades
and of
British Pharmacists throughout the Empire.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the chemical and drug trades in the British Empire and other countries in the Old and New Worlds. It is the official journal of nineteen Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12/60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12/60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

Telegrams: "Chemicus Cannon London." Telephone Bank 852 (two lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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A DEFINITE AND SPECIALISED CIRCULATION

is what few business firms can obtain by their own efforts. But with the help of THE CHEMIST AND DRUGGIST every maker of, dealer in, or exporter of chemists' supplies has this boon at his disposal. Our unapproached subscription-list (together with our carefully selected and up-to-date supplementary list) of buyers of druggists' goods in all parts of the world makes it certain that

TWELVE THOUSAND DEALERS

will be interested in your Inset or other advertisement in the

SUMMER ISSUE

of
July 26.

Have you advised The Publisher of your requirements for that Issue? If not, communicate without further delay with THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

SUMMARY.

Being a first glance at the articles and events reported in this Issue

Index.

On pp. 71 to 90 of this issue we print a title-page and exhaustive index to the first volume for 1913, which concludes with this number. See the note on p. 62. The volume contains exactly 1,006 pages, besides advertisements and the literary matter put occasionally in the Coloured Supplement. A glance at the index shows the multitude of matters dealt with. Our time is largely devoted to putting things pithily without sacrifice of facts or interest, so that the time of our subscribers (who with others make tens of thousands of readers) may be saved. The direct result, as far as the index is concerned, is that there are more references in it than in the index of any drug or pharmacy journal in the world.

National Health Insurance.

In the National Insurance Act (1911) Amendment Bill, introduced by Mr. Lloyd George on Tuesday (p. 57), there is nothing directly or indirectly affecting pharmacy law and practice. The clauses are arranged thus:

1. Provision of additional money by Parliament.
2. Abolition of reduction of benefits in certain cases.
3. Arrears of contributions.
4. Benefits of exempted persons.
5. Medical benefit.
6. Sickness benefit.
7. Special provisions as to casual employment.
8. Decision of disputes.
9. Extension of powers of Commissioners to make regulations.
10. Joint Committee and Insurance Commissioners.
11. Offences and legal proceedings.
12. Revocation and amendment of orders and extension of time for making orders under Section 78 of principal Act.
13. Short title, construction, and repeal.

SCHEDULE [matters with respect to which regulations may be made respecting Approved Societies.]

We print here the text of the Medical Benefit clause, as being the only one of special interest to our subscribers:

Medical Benefit.—5. (1) No voluntary contributor whose total income from all sources exceeds one hundred and sixty pounds a year shall be entitled to receive medical benefit, but in that case the weekly contribution which would otherwise be payable by him shall be reduced by one penny.

(2) Paragraph (e) of Sub-section (2) of Section fifteen of the principal Act shall extend to members of societies other than such friendly societies as are mentioned in that paragraph who were at the date of the passing of the principal Act entitled as such members to medical attendance and treatment in like manner and subject to the like conditions as it applies to members of such friendly societies.

Mr. Masterman told Mr. Bathurst on Thursday afternoon that the Drug Committee's Report is still under consideration by the Government, and he is not yet in a position to say what action will be taken in regard to it (p. 57).

News of the Week.

Disclosure of formulæ of proprietary articles has had a set-back in Western Australia (p. 51).

A photograph of the President of the French Republic passing our offices in London on Wednesday is reproduced on p. 48.

The Appeal Court has heard to-day (Thursday) arguments in the Teofani cigarette case, and reserved judgment on one point. The Master of the Rolls said the defendant must be restrained, not from making cigarettes or carrying on the business of a cigarette-maker under his own name, but from selling his cigarettes as the cigarettes of "A. Teofani," without clearly distinguishing them from the plaintiff's goods.—The case of *W. H. Gibson v. "Daily Express"* (arising from the Hove veronal case) is down for hearing in the King's Bench Division to-morrow (Friday). Other legal matters are reported on p. 52.

Trade and Market Matters.

Citric acid, cod-liver oil, canary and coriander seeds, and Japanese peppermint oil exhibit a rising tendency. Almond, clove, castor, and turpentine oils, arsenic, carbolic-acid crystals, and copper sulphate tend easier. An auction of first- and second-hand drugs is reported on p. 67.

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus:
"Corner for Students, 'The Chemist and Druggist,' 42 Cannon
Street, London, E.C."

Report on June Analytical Exercise.

THE powder distributed to students on May 28 contained two parts by weight of lead chloride, one part of antimonious oxychloride, and two parts of barium chloride. The calculated composition of such a mixture is:

Pb	...	...	...	...	29.8
Sb	...	...	...	...	14.0
Ba	...	...	...	...	22.5
Cl	...	...	...	...	25.9
O	...	...	...	...	1.9
H ₂ O	...	...	...	...	5.9

100.0

The powder also contained, as impurities, traces of iron, aluminium, calcium, magnesium, and the sulphuric-acid radical.

Samples of the powder were distributed to twenty-one students. Seven reports were submitted for examination. There were no failures in the detection of the metallic and acidic radicals, but three students failed to observe the distinct, although not specially abundant, evolution of water when the powder was heated in a dry test-tube.

Containing as it did as main constituents metallic radicals which were all capable of easy recognition and only the hydrochloric-acid radical, the powder furnished an exercise of a simple character, and almost the only points which involved a certain amount of difficulty were connected with the recognition of the more than usually numerous traces of impurities. The preliminary examination gave, as usual, some useful information. The preparation of a solution for analysis necessitated somewhat prolonged boiling with hydrochloric acid; and even this did not secure a perfectly clear solution, since the trace of a sulphate present gave rise to a faint opalescence due to barium sulphate. This opalescence was so slight that it was almost uniformly overlooked, and it only appeared at all conspicuously when a considerable quantity of the powder was under treatment. The necessity for boiling the powder with hydrochloric acid for some little time in order to effect nearly complete solution, probably led students to use a more concentrated acid, and more of it, than was actually requisite for the object in view, with the result that when hydrogen sulphide was subsequently employed as group reagent, the precipitation of the lead (and, in some cases, of the antimony also) as sulphide was considerably interfered with. At any rate, some students obtained, at later stages, precipitates which it seems tolerably certain consisted of, or at least contained, lead compounds due to traces of lead which had escaped precipitation as sulphide. We have to refer to this matter either in our general remarks or in replies to individual correspondents on almost every occasion when mixtures containing lead salts are distributed for analysis, but we do not seem to have much success in inducing students generally to adopt the only certain remedy—i.e., the thorough saturation with hydrogen sulphide (employing the gas, not the solution in water) of a solution, highly diluted and containing as little free acid as possible. It is often an advantage, and well worth the expenditure of time and trouble, to evaporate the hydrogen-sulphide filtrate almost to dryness to drive out most of the free acid present, then to dilute largely with aqueous solution of hydrogen sulphide and again to pass the gas to saturation and filter before proceeding to test for metals of the iron and subsequent groups. In the present instance traces of lead interfered with the treatment of the iron group, and as iron and aluminium were both present only in very small quantity, a good deal of uncertainty regarding aluminium existed in the minds of several students. Even under favourable circumstances it was not quite a simple matter to prove conclusively the presence of

aluminium, seeing that the precipitate of ferric and aluminium hydroxides was exceedingly small. The recognition of the presence of traces of calcium and magnesium required some time and some rather delicate manipulation, but was attended with less uncertainty than in the case of the aluminium.

PRIZES.

The First Prize for the best analysis has been awarded to

C. E. CLAGUE, 5 Saville Row, Newcastle-on-Tyne.

The Second Prize has been awarded to

JOHN BELL, 23 Dockwray Square, North Shields.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

C. E. Clague (1st prize)	95	Nomen	...	...	92
John Bell (2nd prize)	94	Alpinus	90
Zincona	93	Smilax	86

2. Correspondent who is qualified:

Drupe	93
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TO CORRESPONDENTS.

JOHN BELL.—Your analysis is very satisfactory on the whole. We note that you did not test for a borate.

ZINCONA.—The hydrogen-sulphide filtrate was liable to contain traces of both lead and antimony. In the circumstances of your analysis it is likely that more lead than antimony was present in the filtrate; but the addition of ammonium chloride and excess of ammonia would produce a precipitate in a much more dilute solution of an antimonious salt than of a lead salt, and hence the precipitate may have contained both antimonious oxychloride and lead hydroxide, along with the traces of ferric and aluminium hydroxides.

NOMEN.—You state that no precipitate was produced when you added ferrous sulphate to a solution of the powder in hydrochloric acid as a test for a ferricyanide: a white precipitate of barium sulphate ought, however, to have been obtained if you did as recorded in your report.

SMILAX.—A conclusion, arrived at too hastily it would seem, that a fluoride was present in the powder, apparently led you into perceiving confirmations which we have not been able to repeat.

DURING THE SUMMER RECESS

these analytical exercises will be discontinued, to be again resumed in the winter session beginning in October. Due notice of the resumption will be given. Matter of special interest to students of pharmacy will be given in the Corner when space is available.

COLLEGE NOTES.

FAIRCHILD SCHOLARSHIP.—The examination for this scholarship and four prizes took place on Wednesday simultaneously in Cardiff (Superintendent, Mr. Albert Hagon), Dublin (Mr. W. F. Wells), Edinburgh (Mr. Peter Boa), London (Mr. S. Lamplough Scott), and Manchester (Mr. William Kirkby, M.Sc.). The results will be known in the course of next month.

NORTHERN COLLEGE OF CHEMISTRY AND PHARMACY.—On June 20 a party of students from the Northern College, Manchester, visited Alderley Edge. After an interesting botanical tour, during which many specimens were collected, and a visit to the disused copper-mines, tea was partaken of, by invitation of the Principal, at Philip's Farm. After tea cricket was played, and Manchester was reached on the return journey at about 9 P.M.

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—The students of this College had a botanical ramble on June 21 to Hayes and Keston, in Kent. Many interesting and instructive specimens were gathered, among which may be mentioned the *Drosera rotundifolia*, showing its insectivorous habit, and the *Cuscuta*, or dodder, illustrating its parasitical tendencies, found growing on the heather. At tea the Principal was presented by the students with a set of carvers as a mark of esteem.

Brit. Phar. Conf.

THOSE who intend to take part in the Jubilee meeting of the British Pharmaceutical Conference to be held in London in the week beginning July 21 should write to the Hon. Local Secretary (Mr. Woolcock), 17 Bloomsbury Square, London, W.C., informing him of the number of tickets they will require, and what hotel accommodation, if any. We understand that about two hundred applications have already been received, and there is promise of a splendid meeting. Past Presidents and past Local Secretaries will make a feature of the meeting, and they are giving every encouragement to the London Committee. There is likely to be a large contingent of the rank-and-file of Scottish members.

As regards ladies who are to attend the meeting, we understand that on the Tuesday, after the President's Address, they will have an excursion by motor and other vehicles to the City, inspecting the Mansion House, and afterwards the Church of St. Bartholomew, over which they will be conducted by Mr. E. A. Webb, who, with his brother, Sir Aston Webb, R.A., has been instrumental in restoring this fine old Norman church to something like its former purity of style. On Wednesday morning the ladies will be conducted over the Houses of Parliament by Mr. W. S. Glyn-Jones, M.P. The committee have also got all the tickets that are available for inspection of the Mint on Wednesday, and five parties, of six each, will be conducted through that interesting establishment; it will be necessary to have a ballot for these, and the tickets will be confined to ladies from the provinces.

The arrangements for Thursday's excursion to Windsor, thence up the River Thames, are crystallising well, and it will be a great advantage to the committee to know how many they have to provide for; hence the desire for prompt applications for tickets.

The golf match on the Friday promises to be a big thing. The committee, through the courtesy of the officials of Ealing Golf Club, extend an invitation to Conference members to play over this sporting West London course that day. Mr. Lionel Cooper (the Chas. H. Phillips Chemical Co.) has presented a handsome silver cup for competition, and other prizes will be given by the London Chemists' Golfing Society. Members who intend playing are requested to send in their names and handicaps to Mr. J. Hepburn, Hon. Secretary, L.C.G.S., 17 First Avenue, Walthamstow, Essex, not later than Friday, July 4. A programme of the arrangements will be sent to each entrant in due course. Mr. Hepburn will be obliged if any lady-golfers connected with pharmacy who are to be present at the Jubilee meeting will communicate with him, so that he may be able to arrange for mixed foursomes, if they are desired.

"The Cruise of the Midge."

UNDER this title "The Lancet" has been printing notes on midge-bites. The contribution of June 21 was as follows:

SIR.—"A Victimised Chemist" in THE LANCET of May 31, p. 1571, asks for advice on the subject of midge-bites. In reply, I would refer him to "Pharmaceutical Formulas," by P. MacEwan, published at the office of the *Chemist and Druggist*, where he will find several good prescriptions for this purpose. Formic acid being the active ingredient in the poison of most stinging insects, this is best neutralised by rubbing into the skin an ammoniacal lotion made up with spirit, seeing that water does not penetrate the skin. Lin. camph. ammoniatum B.P., diluted with an equal quantity of lin. saponis, so as not to be too strong, forms a good application for this purpose, and if the liniments are made up with methylated spirit, as they may be, the prescription will not be expensive. Then the classical remedy to keep such insects from alighting on the skin is oil of pennyroyal which annoys them by its smell, while tincture of wormwood (1 in 8) rubbed into the skin keeps them from biting if they settle. All these ingredients may be usefully combined into one prescription, like the following, which I lately prescribed for a relative with great success. It should be rubbed into the wrists and neck as a preventive before going out, or into the bites, when inflicted, in order to allay the itching. R. Ol. pulegii 3ss., tinct. absinthii 3iij., lin. saponis, lin. camph. ammon. aa. pt. æq. ad 3iij. M. et ft. linimentum. Aqueous solutions give very little relief. There are several other good applications for the same purpose described in the work referred to.—I am, Sir, yours faithfully, J. B. N.

The late Dr. John Attfield once wrote to us in appreciation of "Pharmaceutical Formulas," and remarked, "I must adopt the plan of looking into 'Pharmaceutical Formulas' first." Chemists, whether victimised or not, should bear in mind this recommendation.

JAVA PEPPER.—The exports of pepper during 1912 amounted to 24,071 tons, against 18,620 tons in 1911.

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

The Guisborough (Yorkshire) Urban District Council has appointed Mr. A. J. Leeming, of Guisborough, to act as chemist to the Council.

The Bexhill-on-Sea Town Council has passed plans of alterations to premises at 14 Devonshire Road, which are to be opened by Boots Cash Chemists, Ltd.

Some well-produced illustrations of beautiful specimens of antique perfume-bottles, vinaigrettes, and pomanders were given in the "Ladies' Field" of June 21.

A fire occurred on the night of June 21 in the stock-room at the premises of Wand, Ltd., Haymarket, Leicester, but was subdued before much damage had been done.

In the course of the preparation of a quantity of furniture-polish in a room behind the shop of Messrs. S. L. Smith, Ltd., Bridge Street, Whitby, the mixture caught fire. The outbreak was subdued before the fire brigade arrived.

Those chemists who are desirous of entering for the next examination of the Spectacle-makers' Company in November are invited to express their preference as to whether the examination should be held in London or Glasgow.

On Monday, June 16, a young lady cyclist, while trying to avoid a water-cart, lost control of her machine and rushed into the window of the shop of Mr. Moore, 2 New Road, Gravesend, smashing the glass and cutting herself rather severely.

At a window-dressing competition held in connection with a shopping week organised by the Waltham Cross, Cheshunt and District Traders' Association, Mr. J. E. Gaze, chemist and druggist, Cheshunt, was highly commended for a display of "Things to use."

The sixth annual pansy and viola show held at Bristol in connection with Messrs. Ferris & Co.'s Horticultural Society resulted as follows: Pansies: 1, R. Sainsbury; 2, E. Horler; 3, W. Hall. Violas: 1, H. Hodges; 2, G. Baker; 3, E. Horler. The next show, for roses and stocks, is fixed for Thursday, July 10.

Mr. Edwy G. Clayton, F.I.C., F.C.S., the chemist who was sentenced at the Old Bailey for conspiracy in connection with the Suffragette movement, was released temporarily from prison on Monday night after a seven days' hunger strike. Under the new Act each day that he is out of prison defers the date of his final release.

During the time which the Chemical Industry and Engineering Exhibition is open (it closes on June 28) a series of lectures on technical subjects has been delivered. On June 18 Mr. C. T. Bennett lectured on "Essences, Extracts, and Essential Oils"; Mr. C. A. Hill, of The British Drug Houses, Ltd., being chairman. Other discourses were on casein, glue, white-lead, rubber, wood-pulp, leather, and clay. Mr. T. Tyrer presided over a good audience in the lecture-hall on Wednesday evening, when Professor Vivian Lewis gave an interesting lecture on "Fuel." The lecturer included alcohol in his survey, and spoke of the services of the Chairman in regard to the cheapening of this fuel of the future.

Dispensers' Salaries.

The Brighton Board of Guardians on June 24 decided to advertise for a whole-time dispenser at 100*l.* a year. Mr. H. Colling, who has been dispenser at the workhouse since 1893 and has resigned on account of ill-health, was receiving 55*l.* a year for part-time work.

At the meeting of the Portsmouth Board of Guardians the Infirmary Committee proposed that Mr. B. E. R. Burridge, who has been doing duty as part-time assistant dispenser at the infirmary, be appointed assistant dispenser at the maximum salary fixed for the office—viz., 100*l.* per annum and rations. Mr. Perkins, in proposing this recommendation, pointed out that the work of the dispensary has so increased of late that it has been necessary to make certain alterations. Mr. Blackadar,

supporting the resolution, said that in consequence of the demand for dispensers created by the National Insurance Act it is impossible now to get a qualified man for less money than they were offering. The recommendation was carried.

From Our Office Window.

The President of the French Republic is on a visit to London, and on June 25 passed by the offices of THE CHEMIST AND DRUGGIST on his way from the Guildhall, where he had taken luncheon with the Lord Mayor and



THE SCENE IS IN QUEEN VICTORIA STREET, WITH THE ENTRANCE TO QUEEN STREET, CHEAPSIDE, AT THE TOP OF THE PICTURE.

received an address of welcome enclosed in a gold casket. M. Poincaré's grandfather was a pharmacist at Nancy, but it is not on that account that we refer to the matter here, rather to remind our Overseas readers of the work that is constantly in progress at the heart of the Empire to promote good feeling among the nations with whom the British have commercial relations. The reception given to the President by the populace was of a very cordial nature, and the speeches that have been made by M. Poincaré while in this country show in an unmistakable manner that the good feeling between the two nations is mutual. The illustration taken from our office window is a good example of modern Press photography. It was a whole-plate taken about 3.20 P.M., and the finished print was in our hands before five o'clock. The President is seated in the State carriage opposite the officer who is wearing a white plume. The scarlet uniforms of the soldiers lining the streets and the decorations made a pretty scene. About five o'clock on the same day Queen Alexandra and Queen Mary with Princess Victoria and Princess Mary also drove past our offices, the occasion being Alexandra day.

Shops Act.

The Home Secretary has confirmed an order for chemists and druggists at Ashford (Kent) to close each Wednesday at 1 P.M.

The Lincoln City Council has issued an order for chemists and druggists to close at the following hours: Monday, Tuesday, Thursday, and Friday, 8 P.M.; Wednesday, 1 P.M. or 10 P.M.; Saturday, 11 P.M. or 1 P.M. On the day before Good Friday, the last Friday but one preceding the August Bank Holiday, and the day before Christmas Day, the closing hour is to be 11 P.M.

Guardians and Drug-supply Contracts.

Meriden Guardians.—Mr. C. G. Crook, of Coleshill, for drugs.

North Bierley Guardians.—Harrison, Parkinson & Co., Sunbridge Road, Bradford, for drugs.

Kidderminster Guardians.—Ferris & Co., Union Street, Bristol, drugs and druggists' stores, 63/ 2s. 10d.

Southampton Guardians.—W. Bates & Co., Ltd., Oxford Street, Southampton, drugs and chemicals.

Hull Guardians.—J. G. Ingram & Son and the Humber Rubber and Engineer Supplies, Ltd., for the supply of rubber goods for nine months.—Mr. B. M. Stoakes, Ph.C., for aerated waters for six months.

The Local Government Board have suggested to the Thakeham (Sussex) Board of Guardians that in future all drugs and medicines required for the workhouse should be provided by the Guardians and not by the medical officer out of his salary. The latter has suggested that the Guardians should have their own dispensary at the workhouse, and the Local Government Board are to be asked to sanction this arrangement.

Liverpool Notes.

Chemists whose windows overlook the route to be traversed during the Royal visit to Liverpool are expecting to reap a financial harvest.

Mr. G. Milner Sleggs, chemist, Robson Street, has a good display of his ginger-wine essence and Milner hat-cleaner at the Liverpool Exhibition, Edge Lane.

Locums are very scarce in the Liverpool district. Many complaints are heard by chemists, who, desirous of getting a respite after the arduous winter, cannot find a locum.

Chemists who cater for amateur photographers are having difficulty in getting 1s. 3d. for $\frac{1}{4}$ -plates and 2s. 9d. for $\frac{1}{2}$ -plates. The increases respectively have not met with a hearty response. Making up the packets of plates in half-dozens at 8d. (for $\frac{1}{4}$ -plate) does not help much. Most amateurs look upon photography as an expensive hobby, and the rise in plates will in some cases mean the depositing of the camera in the lumber-room for another season.

Mr. Louis K. Liggett, President of the United Drug Co., entertained 150 "Rexall" chemists from various parts of the United Kingdom to luncheon in the Exchange Station Hotel on Wednesday, June 25, following a "congress" on "Rexall" methods. Afterwards some of them visited Messrs. Thompson & Capper's new "Rexall" model pharmacy in Lord Street, Southport, as well as Mr. Charles Hare's one at Birkdale, New Southport.

Manchester Notes.

The Privy Council on Tuesday, June 24, issued a proclamation declaring July 14 to be a Bank Holiday at Manchester and Salford on the occasion of the Royal Visit.

By an error Mr. E. F. W. Thorpe's name was omitted from "The Rest" team photograph on the Insurance Committee's picnic. He was the middle figure in soft-felt hat, seated.

Coventry Notes.

In Coventry City Council on June 24, the Mayor (Colonel Wyley) proposed a vote of condolence with the family of the late Alderman Bird, chemist and druggist, who was for thirty-two years a member, and spoke of him as a most kindly man, whose only idea was to do the best for his city and for the benefit of the community. The vote was seconded by the Deputy-Mayor, and carried, all the members of the Council standing.

Colonel Wyley (Wyleys, Ltd., Coventry) was on June 24 elected to the aldermanic chair vacant by the death of the late Mr. F. Bird. When, in 1911, Colonel Wyley returned to service in the Council, where he was a councillor from 1876 to 1888, he was the first mayor to be chosen from outside, and the aldermanic chair now secures a continuance of his service after the expiry of his term of office as chief magistrate in November next. His Worship and the Mayoress were present on Saturday at Rugby School "Speeches," and was mentioned by the Headmaster as an Old Rugbeian.

From Various Courts.

At Church Police Court on June 19, Fredk. Royse, described as a chemist, was charged with drunkenness. Superintendent Palmer said prisoner had been in the lock-up for three weeks suffering from ill-health through drink. He was discharged.

At Cardiff City Police Court on June 24, Henry Milward (20) was sent to gaol for a month, with hard labour, for obtaining 4s. 11½d. from Robert William Ingram on May 8 by false pretences. He had called at Mr. Ingram's shop and was paid 4s. 11½d. on an order for drugs which he promised to forward, but the goods did not arrive.

In connection with the charge against Ernest George Watts, a Cardiff chemist, of attempting an illegal operation on a woman, on the defendant's committal as reported last week, bail was refused (see *C. & D.*, June 21, index folio 932). His solicitor, Mr. Harold Lloyd, on June 20 applied to Mr. Justice Channell in Chambers for bail, and having read the affidavits, the Judge granted the application, defendant being bound over in his own recognisances of 200*l.* and two sureties of 100*l.* each, or four of 50*l.*

At an inquest held at Skewen (Glam.) on June 20 concerning the death of Mrs. Clark, the husband stated that his wife, having complained of headache, took a headache-powder. Dr. Leonard, who saw deceased on the day of her death, said he found her with her head bandaged—a Welsh custom with people suffering from headache. He gave the woman two tablets and instructions. When he called again at 6.30 p.m. she was lying on the bed in a state of hysteria. There were no indications of deceased having taken anything of a poisonous nature. If deceased had taken a number of headache-powders he should not have found her in the same state. A local grocer stated that he sold a headache-powder to deceased the preceding week and one the week of death. Dr. Leonard said he had been unable to certify the cause of death, but said it was probably due to cerebral hæmorrhage or old kidney disease, the woman being forty-one years old. Ultimately the Deputy-Coroner adjourned the inquiry, ordering a *post-mortem* to be made and the powders to be analysed.

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Mr. James E. McNeill, J.P., druggist, Maghera, has been unanimously re-elected for the twelfth time Vice-Chairman of the Londonderry County Council.

Sir Wm. J. Baxter, D.L., Ph.C., Coleraine, President of the Pharmaceutical Society of Ireland, is laid up with an attack of neuritis. He was unable to attend the annual show of the Coleraine Agricultural Association, Ltd., of which he is President.

The funeral of Mr. Charles Francis Weir, Ph.C., whose death was reported in the *C. & D.* last week, took place on June 20. Messrs. Wm. C. Dobbin, Ph.C., W. K. Dobbin, W. J. Busby, and G. G. Dobbin were present, as well as representatives of all departments of the firm with whom he had served for fifty-four years.

Mr. P. J. Devlin, Ph.C., was plaintiff in a case heard in the Chancery Division of the High Court, Dublin, in which it was sought to have carried out a marriage settlement. Mr. Devlin is the surviving trustee of the settlement, the trust property of which has become involved in bankruptcy proceedings. The Master of the Rolls made the declarations sought for.

At Castleblaney Board of Guardians last week a letter was read from Messrs. Boileau & Boyd, Dublin, regarding analysis of drugs supplied to the Board. While not agreeing with the analyst, they were willing to replace what was left in stock. The Clerk said that according to the terms of the contract they were bound to supply the original quantity ordered, and he wrote them accordingly.

The question whether the two doctors imported into Londonderry by the Federation of Benefit Societies, owing to the dispute with the local doctors, would have the same privileges in sending patients for treatment in the City Infirmary as the local practitioners, was raised at a meeting of the Committee of Management. The house surgeon (Dr. J. G. Cooke) said he should admit any patient who comes provided with an admission order from a governor.

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

Mr. Andrew Hogg, chemist and druggist, Leven, has been re-elected a director of the Leven Gas Co.

Messrs. Alex. Stephen & Son (formerly Wm. Sinclair & Co.), wholesale druggists, have removed to 26 John Street and Jopp's Lane, Aberdeen.

Dundee.

The correspondence on the chemists' half-holiday has been going on for a week in "The Courier."

Mr. Robert Fraser Thomson, M.A., B.Sc., younger son of Mr. J. H. Thomson, chemist, Lochee, has been awarded by the Royal Commissioners of the 1851 Exhibition a Science Research scholarship of 150*l.*, tenable for three years.

Effervescing drinks are a feature of certain chemists' shops in Dundee on Sundays, and it seems this trade will be affected as a result of recent legislation intended chiefly for the control of Italian ice-cream shops. Under the Act referred to refreshment houses are allowed to open on Sundays during certain hours for sales over the counter, but not for consumption on the premises; and it is understood, the police say, that chemists' shops come under this regulation if the drinks are not medicinal, like Seidlitz powders. As the day's drawings in this department vary from 1*l.* to 20*l.*, the effect will be serious.

Edinburgh.

Mr. A. Scott Dodd, B.Sc., F.I.C., F.C.S., has been appointed city analyst for Edinburgh. Mr. Dodd was assistant to Mr. J. Falconer King, F.I.C., late city analyst.

Glasgow Chemists played Edinburgh Chemists in the annual inter-city game of bowls at Leith on June 18, Glasgow winning by 13 shots. Scores: Glasgow, 83; Edinburgh, 70.

A number of children have been attended to at the Infirmary, Edinburgh, in consequence of having tasted what appeared to be a soft white-sugar tablet which contained caustic.

At a meeting of the Royal Edinburgh Infirmary managers on Monday, June 23, the Secretary stated that during the past month 42 per cent. of those admitted to the wards were insured persons, and fully 33 per cent. of the out-patients belong to the same class.

The Lord Provost's committee on June 25 remitted to the sub-committee in charge of the Shops Acts a petition by chemists against proposed orders exempting the trades or businesses of (1) surgical-instrument maker and (2) opticians and scientific-instrument makers from the provisions of Section 4 of the Act.

The Edinburgh Chemists' Golf Club's Bogey Competition for the "Brown" medal was played over the Braid Hills Course, with the following result: First and second a tie, Mr. Wm. Gibb, *plus* 1, square, Mr. G. W. Mangan, less 3, square; third, Mr. Chas. Stewart, less 3, 4 down; fourth, Mr. A. L. Rankine, less 7, 6 down.

Glasgow and the West.

The Glasgow Chief Constable reports that of the 4,203 shops kept open on Sunday 261 are for the sale of medicines.

The Health Committee of Glasgow Corporation have accepted an offer by Mr. Thomas McKinnon, chemist, 585 Govan Road, for the supply of drugs, etc., to Belvidere Hospital during the coming twelve months.

Intimation has now been made of the result of the plebiscite of Glasgow drapers in connection with the movement for exemption from the closed weekly half-holiday, and the official figures show 619 in favour of retention and 545 supporting exemption. It is generally agreed that local chemists have received this result with satisfaction, as it may be assumed that Mr. J. Henry Hart, the President of the Glasgow Chemists' Association, was speaking for them when addressing the recent meeting in the Lesser City Hall.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

"HOMAIS" AND HIS FRIENDS.—Augustine Ménage (the "Félicité" of "Madame Bovary") has just died at the age of ninety. She was interviewed during her latter years by many visitors to Normandy, including Mme. Georges Leblanc (Mme. Maeterlinck), and chatted freely of her deceased mistress, to whom she was much attached. The last of the original characters figuring in Octave Flaubert's world-famed novel has thus now disappeared. M. Jouenne (the immortal pharmacist Homais) died long ago, and his son (the "Napoleon" of the novel) was buried in 1895 at Vandimare (Eure). "Père Yvert" lived at Ry till a few years ago; and the daughter of "Madame Bovary" died at Rouen about the same time.

A French Pharmacist at Vittoria.

(June 21, 1813.)

It is a hundred years ago since the battle of Vittoria was fought and the French finally retired from Spain. Yet some of the older Parisian pharmacists can still remember a comrade who saw something of Wellington's crowning Peninsular victory, actually taking part in a cavalry charge and narrowly escaping being cut down by British sabres. This was Antoine Fée, and he died at Paris on May 21, 1874, at the ripe old age of eighty-five. He could tell of Jussieu and many scientific celebrities of an earlier day, and soon after he retired from the army pharmaceutical service he published an account of his experiences in the Peninsula (1809-15) as an assistant pharmacist-major in the armies of Napoleon I. The book is singularly picturesque and readable; in fact, it gives such a vivid idea of the war against Wellington as witnessed by a quiet, observant young fellow of twenty that it seems somewhat surprising that an English edition has never appeared, so far as I am aware.

Fée had marched in 1809-10 with the victorious French forces to the gates of Cadiz when that port was the only spot on the Spanish soil where Napoleon's rule was unrecognised. After four years' fighting the armies of the great Emperor were retiring step by step from Seville to Madrid, from Madrid to Burgos, and finally from Burgos to Vittoria. Fée travelled through the narrow shady streets of this his last halting-place in Spain, and called upon the old Spanish doctor with whom he had been billeted in 1809. The sunburnt young pharmacist, fluent and eloquent in sonorous Castilian, was scarcely recognised by the doctor and his daughter Casilda as their timid but ever-pleasant lodger of some years before. He gallantly informed the señorita that it was the little crucifix she gave him that had brought him safely through his long campaigns. He then returned to his quarters.

Morning dawned, and the army took up its position for battle, as the Allies were coming up fast. The ambulance of Digeon's Dragoons, to which Fée was attached, was established at Abechuecho. The salient feature of the latter part of the battle was the flanking movement by which Graham turned the French right, that rested on Arriaga and Gumarra Mayor, two villages where bridges over the Zadorra were situated. As a spectator also Fée was exceptionally favoured, for this little village stands on a slight eminence overlooking the plain, beyond which are the mountains whence the allied forces, led by Graham, issued. Fée tells what happened in this manner: "After several brilliant charges by which the enemy was for a time checked, our cavalry, being attacked by an infinitely superior force, was obliged to retire. Our guns were captured, the artillerymen cut down, and their captain killed. Thus roughly handled, our division reformed nearer the town, on ground cut up by gardens and vines. I followed, and kept behind one of the regiments, ready for what might turn up. General Digeon had received a slash across the face, and I helped to dress the wound of a badly injured surgeon-major belonging to the infantry of Sarrut's Division. Then came a brief moment of calm. [This was while the Allies carried Gamarra Mayor, where General Sarrut himself was killed.] The enemy, having passed the Zadorra, turned to the left, Abechuecho was taken at the point of the bayonet, and [Fée's comrades] retreated in disorder, to disband on the further side of Vittoria, passing through a sea of vehicles in which we were doomed to find shipwreck. Charged on front and flank, the dragoon division tried for a few moments to resist. The horses started off, and mine followed by imitation. Shouts, pistol-shots, and the clash of swords sounded in my ears. I had charged on the foe without

knowing it, and with my sabre still in its sheath!" Among the hedged and ditched market-gardens the dragoons could not keep line. "Horses fell, riders pulled them up and rode off, and I found myself, like the rest, in full flight, pursued by the English Hussars. These, now unchecked, charged the convoys, sabreing a helpless multitude, while shells were bursting overhead."

Fée was carried away by the crowd, so tightly wedged in that he was comparatively safe, for the British cavalry could only sabre the outside edge of the densely packed mass. Little by little the young pharmacist reached a ditch which the horses had turned into a morass. He dismounted, and tying his cravat to the bridle induced his horse to leap the mud-hole. So he escaped with a wounded heel and minus his spurs. His comrades halted and bivouacked, but Fée pushed on. He had a nasty tumble in the dark; lent his horse to a fugitive Spanish damsel whom he met "bare-footed, pale, dishevelled, and thinly clad in tattered silks." Near Pampeluna he found Broussais, the celebrated surgeon, picknicking with his Staff. When Fée saluted, the hearty medico laughingly accused him of being too proud to stop and speak. "Come along and join us," he added. The famished pharmacist waited for no second invitation. Broussais had left him an invalid at Avila a few months before. "From my appetite, I fear, he was convinced I had now quite recovered."

The French commandant of Pampeluna sternly refused entrance to the straggling detachments of the discomfited army, but Fée managed to enter and obtain food—his first full meal for over a week. Finally, after weary days and nights of mountain riding, he saw a frontier-post, "Respect aux propriétés. Territoire de l'Empire. Tout maraudeur sera puni de mort." And (like the shipwrecked sailor who, seeing a gallows on the coast, sighed "Thank God, I am cast ashore in a civilised land") the pharmacist sat down and wept for joy to find himself once more in his native land. He was in front, and finally rejoined his own division at Peyrehorade. Vittoria was Fée's last warlike experience, though he did not finally doff the army pharmacist's uniform before 1852.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

SUICIDE.—James Harris, described as a London chemist, committed suicide on June 4 at Capilano Canyon, Vancouver. He was stated to have in his possession an expensive chemist's outfit.

IMPORTING COCAINE PREPARATIONS.—Reference was made in the *C. & D.* (May 17, index folio 757) to the regulations regarding the importation of cocaine preparations into Canada. Further details are now available, from which it appears that

Preparations containing cocaine are to be admitted only when the labels and wrappers covering same contain no reference to any malady for which the preparation is intended as a relief or cure.

No prescription or dosage shall be indicated on the package when imported.

Such preparations may be imported for the use only of bona-fide practising physicians in prescribing for their patients.

NA-DRUG-CO.—Changes have been made in the staff of the National Drug and Chemical Co. of Canada, Ltd., whose annual meeting was referred to recently in this column. Mr. J. W. Knox, the manager of the Lyman-Knox branch at Montreal, has been succeeded by Mr. L. W. Barker, of St. John. Mr. Knox was for many years connected with the house of Lyman Sons, and in 1837, in company with the late Chas. Lyman, established the firm of Lyman, Knox & Co., whose business was in 1906 purchased by the National Drug and Chemical Co. and continued under the management of Mr. Knox. Mr. F. H. Bole has retired from the management of the Winnipeg branch to go into another business; he is succeeded by Mr. L. J. Mylius, of Halifax. Mr. L. A. Miles, who has acted as assistant manager at Halifax for some years, becomes manager there. The new factory at Toronto is nearly completed and will be ready for occupation in the autumn, and it is intended to build a large new building in Winnipeg for occupation in May next year. A new factory and offices are being built at Vancouver, and will be ready in October.

SINCE the severe suppression of opium began, remarks a Tientsin newspaper, morphine has become very popular with opium-smokers, who use this as a substitute.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is regularly supplied by order to all the members of nine Societies of Chemists in Australia and New Zealand, and to many other Chemists in business there.

New South Wales.

PEPSIN AND BISMUTH MIXTURE.—At the meeting of the Pharmaceutical Society on May 13 criticisms were received of the modified formula for compound mixture of pepsin and bismuth, suggested by the compilers of the "Australasian Pharmaceutical Formulary." The addition of cud-bear did not meet with much favour, and one of the correspondents detailed the experiments he had made to imitate the colour of Hewlett's preparation.

Victoria.

MR. E. NORTON GRIMWADE has been re-elected President of the Melbourne Chamber of Commerce. At the annual meeting on April 24 he delivered his Presidential Address, on the commerce and trade of the year.

Western Australia.

PROPRIETARY MEDICINES.—A "Gazette" notice appeared on May 9 notifying that formulæ had been deposited of the medicines named thereunder, and that these medicines, together with those in respect of which the necessary information appears upon the label, may be sold. The notice says:

"The fact that a medicine appears in this list means nothing more than that the formula has been lodged. It does not convey any guarantee or any responsibility on the part of the Department in respect to the ingredients or effectiveness."

The list covers nearly three pages of the "Gazette," but, with ten exceptions, all are of Western Australian manufacture. The "Fatula" Remedy Co., London, have lodged the formula of "Removaire" (liquid and powder), Nurse Eugena's Female Pills, and "Fatula" tabs. This is the only London firm which has lodged a formula. Mr. W. E. Woods, Sydney, has deposited the formula of Woods' Great Peppermint Cure.—An advertisement was published on April 25 in the "West Australian," signed by fourteen British proprietary-medicine proprietors, in which it was stated that

"The owners of the proprietary articles named below are of opinion that the regulation which enforces disclosure of the formulæ thereof would jeopardise their rights and property all over the world; and after due consideration, and acting under expert advice, they have determined that they cannot comply with the regulation, which might result in confiscation of their property without any advantage to the public or the State.

"So far from protecting the public by this experimental law, it may help to foster a host of inferior imitations, put on the market by those who have no reputation to keep up, as have the manufacturers of preparations which have by their usefulness and reliability earned the patronage of consumers throughout the world.

"It is necessary for those people who do not wish to be deprived of the family medicines to which they have been accustomed, and of which experience has taught them the value, to take steps accordingly and to exert every effort to get this regulation withdrawn."

The signatories are: Ashton & Parsons' "Phosferine," Ashton & Parsons' Matricaria Infants' Powders, Beecham's Pills, Clarke's Blood Mixture, Dr. Collis Browne's Chlorodyne, Eno's Fruit Salt, Guy's Tonic, Guy's Fruit Pills, Dr. Hair's Asthma and Bronchitis Cure, Hayman's Balsam of Horehound, Keating's Cough Lozenges, Keating's Worm Tablets, "Lymphol" for the treatment of rupture, Powell's Balsam of Aniseed, Powell's Mild Aperient Pills, Steedman's Soothing Powders, "Thermogène Absorbent Medicated Wadding," and Woodward's Gripe Water.—The W. H. Comstock Co., Ltd., have also issued an advertisement, in which they state that they had no confidence in the arrangement of lodging a formula confidentially, as with the continual change of officials it would only be a matter of months before the public would be offered preparations "guaranteed just the same," made to the formula deposited with the Government, obtained, so it will be hinted, by some irregular means.—Information has

been received by cable that as the result of a prosecution of a local firm for selling Zam-Buk and Morse's "Indian Root Pills," the regulations made under the Health Act have been declared invalid, as they were not laid before Parliament in the manner prescribed by Section 270 of the Act.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in British South Africa, as well as to other chemists in business there.

Cape Province.

P.A.T.A.—A congress of those in South Africa who are interested in the price-protection of proprietary articles is to be held in August under the auspices of the Proprietary Articles Trade Association of South Africa. Steady progress has been made by the committee recently, but there are various points which they desire to bring forward for general discussion and settlement.

LEGISLATION PROSPECTS.—The drug-trade, with all that pertains to it, is quiet in the Province at present. Leaders of pharmacy are hoping that Parliament will tackle the new Medical and Pharmacy Act ere long; then they will be busy, for it is well understood that the Government will do all in their power to see that the chemist is protected in every way. As the result of the change in the new Customs duties on acetic acid and alcohol, glacial acetic acid is costing 6s. per lb. wholesale, and a prohibitive duty has been put on wine-farmers who produce a wine-vinegar that is quite unsuited for pharmaceutical purposes, not to mention its use at the table.

P.A.T.A. RATES.—In the Civil Court, Cape Town, on June 2, Mr. Blackstone Williams, R.M., was engaged in hearing an action for damages brought by Mr. James Moore, pharmacist, Adderley Street, Cape Town, against Mr. E. Blake-Jardine, in his capacity as Secretary of the P.A.T.A. of South Africa. Mr. Simpson, of Messrs. Stent & Simpson, appeared for the plaintiff, and Mr. J. S. Kayser for the defendant. The plaintiff claimed the sum of 5*l.* damages, alleging that defendant advised Mr. Ashley Miller, a wholesale merchant, Cape Town, from whom the plaintiff was buying goods, not to supply him with goods of any description. Defendant denied using the words attributed to him, or that he used words which could be interpreted to imply that plaintiff was not a fit and proper person to do business with. Plaintiff and Mr. Ashley Miller are members of the P.A.T.A., an organisation which has for its objects *inter alia* to stop cutting of prices. The plaintiff was selling the products of Messrs. Colgate & Co., New York, the agents in South Africa being Messrs. Read & Campbell, Ltd., Johannesburg, at a lower rate than the fixed ones. The plaintiff, in course of evidence, said that he would only maintain the P.A.T.A. rates provided other firms in the same street did the same. He had to meet competition, and would do so. Personally he would like to see schedule rates kept. After the Secretary of the P.A.T.A. called on him, he interviewed Mr. L. H. Walsh, President of the organisation, and manager of Messrs. Lennon, Ltd., Cape Town; Mr. F. C. Mathew, managing director of Messrs. Heynes, Mathew, Ltd., Cape Town; and Mr. J. Scott, manager of Messrs. Petersen, Ltd., all firms being members of the P.A.T.A. and, together with Mr. Ashley Miller, appointed as distributors of Colgate's products. Plaintiff admitted that supplies had never actually been stopped, but Mr. Ashley Miller had told him that unless he kept to the P.A.T.A. rates his own supplies would cease. Mr. Ashley Miller refused him further credit till the differences existing were adjusted. Further hearing was adjourned till June 25.

Transvaal.

BUSINESS CHANGE.—Messrs. Miller & Lewis, chemists, Johannesburg, have taken over Messrs. Jolly & Co.'s pharmacy at the corner of Pritchard and Harrison Streets, Johannesburg.

LEGAL REPORTS.

TRADE LAW.

Dentists Act.—At Southampton last week, E. S. Mason, 104 Lodge Road, Southampton, was fined 1*l.* 17*s.* 6*d.*, inclusive of costs, for exhibiting outside his premises a plate describing himself as "D.D.S., New York Dentist." Defendant explained that the offence was committed quite inadvertently, and as soon as he was summoned he had the wording on the plate altered to "New York Dentistry." The proceedings were taken at the instance of the British Dental Association.

Soap Litigation Settled.—In the Chancery Division on June 23, Mr. Colefax, K.C., mentioned the action of Joseph Crosfield & Sons, Ltd., *v.* Lever Bros., Ltd. On behalf of the plaintiffs he asked for an order that, as the defendants had agreed to take a licence under letters patent No. 1,515 of 1903, granted to Wilhelm Normann in issue in the action, all further proceedings might be stayed, each party paying its own costs. Mr. J. Hunter Gray appeared for the defendants and consented, and his Lordship accordingly made the order as asked.

A Question of Storage.—Mr. Walter Powell, chemist and druggist, Parliament Road, Middlesbrough, was the defendant in an action heard at Guisborough County Court on June 19. Geo. Bowman, Great Ayton, sued him for 7*l.* 6*s.* 10*d.* in respect to the storage of goods belonging to a chemist's shop at Great Ayton. It appeared that the arrangements for the storage were made in November 1909 by Wm. Arnsby, who, it was suggested, acted on behalf of Mr. Powell. For the defence it was stated that Mr. Powell was never the owner of the pharmacy at Great Ayton nor a partner with Arnsby, and that all defendant had done was to supply the latter with goods in the ordinary way of business. Arnsby, who was called, said that Mr. Powell had nothing to do with the business, and the Judge found for defendant, with costs.

Chemists' Sundries.—In the City of London Court on June 24, before Judge Rentoul, K.C., Mr. Guy W. Wise, chemist, High Street, Rickmansworth, applied to have Mr. Thomas F. Goddard, solicitor, 4-5 Copthall Court, E.C., committed for the non-payment of 32*l.* for chemists' sundries supplied over a course of years. Judge Rentoul, K.C., wondered why the plaintiff had given credit to the defendant for 32*l.* worth of scents and things. Plaintiff's solicitor's clerk said that defendant had paid 5*l.* on account from time to time. Judge Rentoul said if the plaintiff did not care to come to the court instead of sending his solicitor's clerk he would not make a committal order. Plaintiff's solicitor's clerk added that the defendant was living in a 100*l.* a year house when he had the goods. He now lives at The Den, Shiplake. Judge Rentoul adjourned the case for evidence of means.

Jefferson Dodd, Ltd.—At the Marylebone Police Court on June 25, Mr. Richard Jefferson Dodd, managing director of this company, applied to Mr. Paul Taylor with the object of obtaining a reduction of the fines imposed upon himself and the company the previous week for making default in forwarding to the Registrar of Companies a copy of the list of members of the company, with summary of capital and shares, etc., as required by the Companies Consolidation Act. The fines and costs totalled 16*l.* (See *C. & D.*, June 21, index folio 934.) "It was a very heavy fine," Mr. Dodd said. "Excuse me," said the Magistrate; "I fined you at the rate of one shilling a day, when you were liable to a fine of 5*l.* a day. How on earth can you say that is heavy? What you do suggest it should be—a penny a day?" Mr. Dodd replied that 16*l.* was heavy for a small company, and, seeing that the Magistrate was not disposed to reduce it, he applied for time in which to pay the amount. The Magistrate consented, and promised that the Solicitor to the Board of Trade should be communicated with to that effect.

Meal-times in Shops.—At the Bradford City Police Court on June 19, Gallons, Ltd., grocers, who have 200 branches, were summoned for "failing to arrange the intervals for meals for an assistant" at the Otley Road, Bradford, branch. In accordance with Sub-section 3 of Section 14 of the Act, the company laid an information against the manager of the branch as being the actual offender. It was admitted by the manager that he had taken all his meals in snatches of a few minutes every day for a week, though he had received express instructions from headquarters that where managers have no assistants capable of being left in charge during the dinner-hour, they must close their shops from 1.30 to 2.15 P.M. He disregarded the instructions, unknown to his employers, because he was anxious for his own benefit to increase the returns. The

Stipendiary Magistrate (Mr. H. W. W. Wilberforce) said it is necessary for the prosecution to prove that the defendants had not used due diligence in carrying out the provisions of the Act, and to show what further steps the defendants might have taken. The prosecution had not proved an offence, and the summons was dismissed. No action was taken upon the information against the manager.

Ginger-beer Bottle Explosion.—In the King's Bench Division of the High Court on June 25, Mr. Justice Horridge gave judgment in an action in which an interesting point was raised with regard to the explosive qualities of ginger-beer and the reliability of the bottles into which it was put. The action was brought by a Mortlake boy, H. J. W. Bates, against Batey & Co., Ltd., for damages for the loss of an eye caused by the explosion of a bottle of ginger-beer. The jury assessed the damages at 275*l.*, and special damages to the father to the extent of 30*l.* were agreed upon. His Lordship, in giving judgment, said a bottle of ginger-beer is not in itself a dangerous thing, and further, if it were so, it was a thing which Wallis, who purchased from the defendant company, must equally have known to be a dangerous thing, as he would be fully acquainted with the explosive quality of ginger-beer, and that therefore there was no duty to warn him. With regard to the question of whether or not, as this ginger-beer was in a defective bottle, the bottle of ginger-beer was a dangerous thing, his Lordship thought the verdict of the jury must be taken to mean that the defendants did not take proper means to inform themselves as to whether or not the bottle was a safe bottle. His Lordship quoted several judgments, which he said made it clear that in this case the plaintiff was not entitled to recover. Judgment was accordingly entered for the defendants, with costs.

Trade Secrets.—In the High Court of Justiciary, Edinburgh, on June 20, the Lord Justice-Clerk (Lord Kingsburgh) and Lords Dundas and Salvesen gave their decision on the question of relevancy which had been raised in the case of *H.M. Advocate v. H. Mackenzie*. The defender had been in the employ of T. & H. Smith, Ltd., and it was alleged that between July 3, 1907, and April 2, 1913, he had stolen a book relating to secret processes. The Lord Justice-Clerk, in giving the judgment of the Court, remarked on the wide latitude of the indictment, which was unprecedented in his experience. If the case were allowed to go to trial the prosecutor would have to show by his evidence that the latitude taken was not unfairly taken, and if he failed to do so his failure might lead to his not being able to obtain a verdict. His Lordship understood that no trial was to proceed on the present indictment without a new service, and he suggested that the advisers of the Crown might well consider whether, if they were to proceed further with the case, they would not frame an indictment which might be more satisfactory in this respect. His Lordship was not prepared to cast the indictment on that point, but it certainly would be more satisfactory in a case so peculiar for the prosecutor to express on the indictment the cause justifying the latitude so extreme. As regards this charge, his Lordship could not see any ground for holding it to be irrelevant. As to the second charge, that accused was bound by his agreement with his employers not to make known to others the secrets of their business, and that he did in breach of trust make copies of recipes "with intent to dispose of them for a valuable consideration to trade rivals," his Lordship was quite unable to hold that this was a relevant charge of crime, either completed crime or attempted crime. The defence was therefore sustained. In consequence of this the charge against Anna Mackenzie (offering to dispose of copies of recipes relative to processes for the manufacture of chemical products) also fell to the ground. Apart from that, his Lordship's strong impression was that what was charged against her did not amount to an overt act of crime. Lords Dundas and Salvesen concurred.—On Tuesday it was announced that the Crown had decided that no further proceedings should be taken against Mr. Mackenzie and his wife.

Sale of Food and Drugs Acts.

COMPOUND LIQUORICE-POWDER.

At Goole Petty Sessions on June 18, Lionel Cawthorn, Goole, described as a druggist, was summoned for supplying compound liquorice-powder not according to the standard of the British Pharmacopœia. Mr. A. W. Drury appeared for defendant, and Mr. Norman Crombie for Bleasdale, Ltd., manufacturing chemists, York, who supplied the powder with a warranty. An inspector of the West Riding County Council had given evidence of purchase, when Mr. Drury raised an objection in regard to the form of summons, which did not state the name

of the prosecutor. The Magistrates upheld the objection, and dismissed the summons. Mr. Crombie thereupon stated that the powder supplied by Bleasdale, Ltd., was genuine, and he invited the prosecution to take proceedings whenever and wherever they chose to do so. The company did not fear any analysis of their powder, no matter to what test it is put. Application for costs for both Mr. Crombie and Mr. Drury was not allowed.

[Bleasdale, Ltd., have since written to the "Goole Times," repeating the statement made on their behalf by Mr. Crombie. The company state that compound liquorice-powder is a speciality with them, for which they have gained a wide reputation which they intend to uphold.]

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

INSTITUTE OF NATURAL THERAPEUTICS, LTD. (P.C.).—Capital 400l. Objects: To take over the business of A. D. Light and W. Light, 49 Queen Victoria Street, London, E.C.

MAGNETAIRE, LTD. (P.C.).—Capital 100l. Objects: To take over the business carried on by W. Light and A. W. Light as "Copson Garratt & Co.," 11 and 12 Finsbury Square, London, E.C.

VARIVANE, LTD. (P.C.).—Capital 100l. Objects: To carry on the business of A. D. Light and W. Light, manufacturers of and dealers in surgical instruments and appliances, chemists, etc., 56 Ludgate Hill, London, E.C.

POCOCKS, LTD. (P.C.).—Capital 500l., in 1l. shares. Objects: To carry on the business of wholesale chemists' sundriesmen. The first subscribers are B. E. Pocock and S. J. Pocock. R.O., 82 Liverpool Road, London, N.

EAST MANCHESTER DRUG CO., LTD. (P.C.).—Capital 300l., in 1l. shares. Objects: To carry on the business of chemists, druggists, etc. Mrs. C. D. Evans, Bronallt, Prestatyn, is the first director. R.O., 225 Ashton Old Road, Ardwick, Manchester.

HAIRDRESSERS' SUPPLY, LTD. (P.C.).—Capital 1,000l., in 1l. shares. Objects: To carry on the business of manufacturers of and dealers in perfumes, fancy goods, and hairdressers' supplies, and to adopt an agreement with E. and F. E. Rickard, who are the subscribers and first directors. R.O., 12 George Street, Mansion House, London, E.C.

ALFRED ALEXANDER & CO., LTD. (P.C.).—Capital 1,000l. Objects: To carry on the business of glass-bottle manufacturers at Southwick and Blaydon. The directors are to number not less than two or more than such number as may from time to time be fixed by the United Glass Bottle Manufacturers, Ltd. G. E. Alexander (chairman), E. Alexander, and P. Gold are the first. R.O., 85 Gracechurch Street, London, E.C.

MCDougALL BROTHERS, LTD. (P.C.).—Capital 100,000l., in 1l. shares. Objects: To carry on the business of manufacturing and agricultural chemists and merchants, manufacturers of and dealers in sheep-dips, cattle-dressings, oils, colours, spirits, drugs, disinfectants, fertilisers, insecticides, salts, acids, ointments, plasters, cosmetics, scents, foods, colours, dyes, extracts, paints, powders, varnishes, photographic, medical, surgical, and toilet requisites, etc. The first directors are I. S. McDougall, I. McDougall, and L. McDougall, Port Street, Manchester.

COLOMBO APOTHECARIES' CO., LTD., of Colombo, Ceylon, have declared a dividend of 10 per cent. and a bonus of 2½ per cent. This absorbs Rs. 50,000, leaving a balance of Rs. 18,859 to be carried forward.

TONKA-BEANS.—In his annual report, the British Consul at Ciudad Bolivar states that, owing to their high value, more interest has lately been displayed in tonka-beans. The trees produce heavy crops generally once in four years, while the intermediate crops are small, as the tree appears to become exhausted after each heavy bearing and to require several seasons for its recovery. The crop for 1912 was limited to 30,737 kilos. On the other hand, the crop for 1913 again promises to be very large; in fact, it is expected that it will exceed anything known hitherto, and the total yield has been estimated to reach from 400,000 to 500,000 kilos. In anticipation of such a large production, which it would take about three or four years to absorb on the ordinary basis of consumption, a sharp drop of prices has occurred. The exports from Ciudad Bolivar in 1912 were 30,736 kilos. (29,438l.), against 29,774 kilos. (18,290l.) in 1911.

BIRTHS.

DENNIS.—At 16 Cecil Square, Margate, on June 22, the wife of Wm. Dennis, chemist and druggist, of a daughter.

FOX.—At White Cottage, Grange Avenue, Woodford Green, on June 25, the wife of C. W. N. Fox, chemist and druggist, director of Wm. Fox & Sons, Ltd., of a daughter.

MIDDLETON.—At 262 Ferme Park Road, Hornsey, London, N., on June 21, the wife of George Middleton, pharmacist, of a son.

STRANACK.—At "Corneville," Musgrave Road, Durban, Natal, on June 23, the wife of Morris William Stranack, chemist and druggist, of a daughter. (By cable.)

TUTTON.—At "Duart," Yelverton, South Devon, on June 24, the wife of Dr. A. E. H. Tutton, F.R.S., of a son.

WISEMAN.—At 27 Inglis Road, Southsea, on June 15, the wife of G. H. Wiseman, chemist and druggist, of a daughter.

MARRIAGES.

HANBURY—SYMONS-JEUNE.—At Old Windsor Church, on June 25, Cecil Hanbury, eldest son of the late Sir Thomas Hanbury, K.C.V.O., and of Lady Hanbury, La Mortola, Ventimiglia, to Effield Dorothy Cecil, only daughter of Mr. and Mrs. Symons-Jeune, Runnymede House, Old Windsor.

McKESSON—LAWRENCE.—At Christ Church, Broadway, New York, by the Rev. Dr. George Alexander Strong, on June 9, Donald McKesson (Messrs. McKesson & Robbins) to Catherine, daughter of Mr. Percy Lawrence, New York City. [Mr. and Mrs. McKesson are spending their honeymoon in Europe.]

WOOD—ELLIS.—At St. Columba's Church, Downing Street, Cambridge, on June 18, George L. Wood, chemist and druggist, son of the late Mr. William Wood and Mrs. Wood, of Uttoxeter, to Maud, younger daughter of Mr. Clement H. Ellis, 5 Parker Street, Cambridge.

[The presents to the bridegroom included silver mustard and pepper pots from the officers of the Cambridge Pharmaceutical Association.]

DEATHS.

DAVIES.—At Southbourne, near Emsworth, on June 19, Mr. Hugh Davies, retired chemist, aged sixty-one.

[An inquest in regard to the death of Mr. Davies and his wife was held on June 21. The dead bodies of both had been found in their bungalow by a newspaper-boy two days before, and the verdict of the Coroner's jury was that Davies had shot his wife with a revolver and afterwards committed suicide in the same manner during temporary insanity. It was stated at the inquest that Mr. Davies had married a widow at Croydon in June 1904, and a letter which he left to the Coroner stated that "the sad affair was due to the continuous nagging of his wife." He added: "My estate will be equally divided between my brother John, of Tregor, Cerrigceinwen, Llangefni, Anglesey, and Elizabeth Jones, of Anglesey." The deceased woman wished hers to go to her niece, Hilda Farmer, of Godalming. Mrs. Davies was forty-five.]

GRAVES.—At Burmantofts Street, Leeds, on June 15, Mr. Joseph Waddington Graves, chemist and druggist. Deceased passed the Modified examination in 1871.

HENSTOCK.—At the General Hospital, Nottingham, on June 22, Mr. Harold Henstock, chemist and druggist, of peritonitis following an operation. Mr. Henstock, whose home was at Matlock Bath, had been an assistant for some years with Mr. Whitchurch, Goldsmith Street, Nottingham. He had been in indifferent health for some time, but was at business up to Friday. He was well known to a large section of cricketers and footballers, being a regular member of the Thursday United Club, and his early death is regretted by a large circle of friends. Mr. Henstock, who was thirty-three years of age, passed the Minor in 1905.

HUTCHINSON.—At Inval, Haslemere, on June 23, Sir Jonathan Hutchinson, F.R.C.S., M.D., F.R.S., aged eighty-five. Sir Jonathan was born at Selby. He studied at St. Bartholomew's Hospital, London, and took the M.R.C.S. in 1850, and received his F.R.C.S. in 1862. He has been President and Professor of Surgery and Pathology of the Royal College of Surgeons, has filled the presidential office of many of the medical societies.

JONES.—At 14 Wrexham Street, Mold, Mr. John Robert Jones, chemist and druggist, aged thirty-five. Mr. Jones, who died suddenly, passed the Minor in 1902.

LOW.—At 73 Dalmeny Street, Leith (the residence of his mother), on June 22, Mr. Alexander Taylor Low, chemist and druggist, Bellingham, aged forty-five. Mr. Low passed the Minor in 1895. He was for a short time an assistant at Newcastle-on-Tyne, and then at Rothbury, as manager of Farrage & Co., Ltd., where he remained for twelve years. Two years ago he opened a business at Bellingham.

MARSHALL.—A cablegram has been received announcing the death of Mr. Charles Marshall, Ph.C., who went out to Toronto last November. The deceased served his apprenticeship with Grattan & Co., Ltd., Belfast, and afterwards travelled for Wm. Doig & Co.

PATRICK.—At Mensham, on June 12, Mrs. Patrick, widow of Wm. Patrick, chemist and druggist, aged eighty-seven.

SHRIMPTON.—At Margate, on June 19, Mr. Fredk. Geo. Shrimpton, chemist and druggist, manager of Lloyd's Pharmacy, Northumberland Road, Cliftonville, Margate, aged sixty-four. He had previously resided at Andover, and was stated to have suffered from a nervous breakdown some four years ago. He died from prussic-acid poisoning.

STOCK.—At Cockerton Hill, Darlington, on June 22, Mr. William Frederick Keating Stock, F.I.C., F.C.S., for thirty-three years public analyst for the County of Durham.

WHITEFIELD.—At Fort Street, Barnstaple, on June 17, Mr. Harold Whitefield, aged twenty-one. The deceased, who served his apprenticeship with Hicking & Son, chemists and druggists, Joy Street, Barnstaple, suffered from heart-disease.

WINCKLER.—At Borstal Woods, Plumstead, on June 22, Ernest Winkler, chemist and druggist, aged thirty-six. Deceased was found in the woods, and near him was an empty bottle which had contained prussic acid. He is stated to have been in the employ of a Greenwich chemist, and to have complained of overwork on account of the excessive number of prescriptions he had had to dispense in connection with the National Insurance Act.

WILLS PROVEN.

MR. JOHN HALL, chemist and druggist, Chambres Road, Southport, who died on February 17, left estate of the gross value of 8,618*l.* 6*s.* 1*d.*, of which the net personalty has been sworn at 5,298*l.* 14*s.* 4*d.*

MR. CHARLES FREDERICK BANCROFT, chemist and druggist, The Bank House, Kineton, Warwickshire, who died on March 15, left estate of the gross value of 2,043*l.* 10*s.*, of which 1,184*l.* 9*s.* 9*d.* is net personalty.

MR. JOSEPH HAMER, chemist and druggist, 4 Oaks Terrace, Bradshaw Brow, Turton, Bolton, who died on April 24, left estate of the gross value of 23,094*l.* 2*s.* 7*d.*, of which the net personalty has been sworn at 23,052*l.* 18*s.* 4*d.*

MR. WILLIAM RICHARD HOPKINS, Ph.C., 88 High Street, Barry, who died on March 29, left estate of the gross value of 3,841*l.* 2*s.*, of which the net personalty has been sworn at 237*l.* 19*s.* 11*d.* Probate of his will has been granted to his widow, Mrs. Janet Hopkins, of the same address, and probate has been renounced by the Public Trustee. The testator directed that his son, Richard Lougher, should have the option of purchasing his business as a chemist and druggist carried on at High Street, Barry.

MR. MAGNUS H. WEBSTER, Ph.C., formerly of Buckie, N.B., has obtained a position with Messrs. Charles Pfirger & Co., manufacturing chemists, Brooklyn, N.Y.

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

TOOTH'S EXTRACT OF MEAT CO. have removed from Duke Street, London Bridge, to 25 Leman Street, London, E.

MR. P. E. UNDERWOOD, Ph.C., has opened an up-to-date pharmacy at 23A Walbrook, London, E.C. (near Cannon Street Station).

MESSRS. DAVIES BROS., cash chemists, have opened a pharmacy at 48 High Street, Gorseinon. Mr. Sydney W. Davies, pharmacist, is the principal.

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. J. B. HARRIS, eldest son of the late Mr. J. B. Harris, chemist, Southmolton, Devon, and grandson of Mr. J. Hinton Lake, Ph.C., Exeter, took his B.A. degree at the Senate House, Cambridge, last week. Mr. Harris was a scholar of Selwyn College, having taken an open mathematical scholarship in 1910 from West Buckland School. In the Mathematical Tripos Part II. he was placed in Class III. Mr. Harris has just attained his majority.

A PLEASANT CEREMONY took place in the vestry at Christ Church, Newgate Street, London, E.C., on Friday evening, June 20, in which Mr. Ralph Cassie, the well-known pharmacist, was the central figure. Mr. Cassie has been a churchwarden of Christ Church for eighteen years, and as a mark of appreciation for his services the parishioners presented him with a silver salver, suitably inscribed. The formal presentation was made by Canon Pearce, formerly vicar of the church, with whom Mr. Cassie had been associated for many years. The Canon's eulogy was endorsed by the present vicar, the Rev. Hine Haycock.

MR. FREDK. BOEHM, whose portrait we reproduce, is celebrating this week the semi-jubilee of the foundation of his business in London. Mr. Boehm was born in Offenbach-am-Main, and was apprenticed to the wholesale drug-trade with a firm in Frankfort. At the end of three years he spent eighteen months in the Fresenius Laboratories at Wiesbaden, after which he was for six months at the Brunswick Druggists' Academy. Coming to London in 1894 he entered the Mincing Lane produce and drug trade, and in 1898 started business on his own account in Billiter Square Buildings as a manufacturers' agent and importer of chemicals, oils, drugs, essences, and other produce. In 1895 he was appointed manager of the London branch of E. Merck, Darmstadt, with whose partners he made acquaintance in 1882 when the regiment in which he was serving was at Darmstadt. Dr. Carl E. Merck was in the same regiment with him, and this acquaintance fructified in his control of the London branch. Mr. Boehm converted his own business into a limited liability company in 1908, and his remarkable progress has since continued. Mr. Boehm is a popular man on 'Change, and is a typical personification of John Bull, his perfect English enhancing this characteristic.



MR. F. BOEHM.

TRADE NOTES.

THE BRITISH DRUG HOUSES, LTD., Graham Street, London, N., close on July 5 for the annual outing of the staff.

MESSRS. STAFFORD ALLEN & SONS, LTD., will close their works at 7 Cowper Street, London, E.C., on July 5 on the occasion of their annual outing.

MESSRS. C. J. HEWLETT & SON, Charlotte Street, London, E.C., will close their factories and warehouses on Saturday, June 28, for the annual picnic of the staff.

MESSRS. BAISS BROS. & STEVENSON, LTD., 174-176 Grange Road, Bermondsey, S.E., will close their premises on Saturday, June 28, for the annual outing of their employés.

FLY-CATCHERS.—The Automatic Snake fly-catcher is designated by the manufacturers—Messrs. Mason, Stiebel & Co., Selby—"the best on earth." Particulars as to prices and advantages appear among the advertisements in this issue.

BISMUTHATED MAGNESIA, a special preparation of Messrs. Ayrton, Saunders & Co., Ltd., wholesale druggists, Liverpool, is the subject of an attractive offer in an advertisement in this number. Showcards and window-bills are supplied to assist in selling the preparation.

NEW USES FOR BROMINE.—We mentioned in our issue for May 17 (index folio 757) that the German Bromine Convention are offering prizes for suggestions for promoting the use of bromine. In an advertisement in the last issue of THE CHEMIST AND DRUGGIST will be found the conditions of the competition, for which a prize of 500*l.* is being offered.

P.A.T.A. LIST.—The additions in June were: Anzora cream to retail at 1*s.* 6*d.* and 2*s.* 6*d.*; Barclay's Chox, 1*s.* and 2*s.* 6*d.*; Christy's lanoline, 6*d.*; Greenwich lime-ade, 3*d.*; Money-back corn-cure, 1*s.*; Palmolive cream 1*s.* 11*d.*, and shampoo 2*s.* 5*d.*; Pylitna, 2*s.* 9*d.*; Thompson & Capper's homeopathic pilules, tinctures, etc., 6*d.*; and Voleated oxygen jujubes, 1*s.* 6*d.*

FRECKLE-CREAM.—Messrs. Arthur H. Cox & Co., Ltd., Brighton, have produced for sale by chemists a freckle-cream, which sells at 1*s.* retail. The cream—a smooth white paste—is put up neatly in earthenware pots with celluloid covers, and is stated to have proved of value for removing freckles. As this is the time of the year when freckles appear, it is appropriate to display this freckle-cream on the counter and in the window. The name of the retailer can be placed on the label.

"LION" BRAND liquor ammon. fort. (880) is a special production of Messrs. Brown & Blackburn, Thongsbridge, Huddersfield, which has been before the drug-trade in this country, the Colonies, and abroad for over thirty years. The product is stated by the firm to be "equalled only by volcanic ammonia." We have received samples of liq. ammon. fort. and also of Brown's sanitary fluid (which mixes with water to form a milky liquid) and pink disinfectant powder, which are manufactured in large quantities. These are worth the attention of large buyers.

IODEX SUPPOSITORIES.—Messrs. Menley & James, Ltd., Menley House, Farringdon Road, London, E.C., have introduced iodox into suppositories so that it can exert its beneficial effect in hemorrhoids and other inflammatory conditions of the rectum. The use of iodine in this manner has hitherto been limited on account of its irritating action on mucous surfaces, but with iodox the difficulty has been overcome. The suppositories are novel in form, they resemble gelatin capsules except in shape, and when required for use they are to be immersed previously in warm water for a few seconds. Iodox suppositories are packed in square boxes of one dozen, and sell at the minimum retail price of 2*s.*

MARTINDALE NOVELTIES.—We have received the quarterly wholesale price-list of chemicals and galenicals of W. Martindale, 10 New Cavendish Street, London, W., and also particulars of newly introduced special preparations of the firm. Of these an interesting one is Cavendish water, an aperient water slightly sparkling,

which meets the wishes of those who prefer a morning draught in this form. As a result of research work on the compatibility of bismuth salts with digestive ferments, Dr. W. H. Martindale has produced a bismuth and pancreatin mixture which retains its activity for any reasonable period. Another novelty is a "Steriloid" jacket, a device for warming saline solution for douching. The use of cold-saline solution is inimical to the patient's welfare, and the difficulty of warming and maintaining the solution at a definite temperature is considerable. The "Steriloid" jacket accomplishes this object in a simple but effective manner. The price list to which we referred at the beginning of this note has been revised, and many additions have been made. The many chemists who look to this firm for emergency orders should see that they have handy the revised list.

AS MENTIONED in our issue of February 8 (index folio 213) the London branch of the business of E. Merck, of Darmstadt, has been removed to 66 Crutched Friars, next door to the old address, which premises adjoin those of Mr. Boehm at 15 and 16 Jewry Street. The new premises consist of a modern building of four floors and a basement, and are well adapted for carrying a large stock of Merck's preparations. The extension enables the convenience of customers to be met by giving immediate delivery out of London stock of the articles mostly in demand. A brief inspection of the premises by a C. & D. representative showed that admirable arrangements have been made for housing the many proprietaries, a series of numbered dustproof cupboards from floor to ceiling being a feature of the storing system. Since the removal both the quantity and the assortment of the stock have been largely added to, and a pamphlet has been prepared showing the various chemicals and preparations now stocked. The Merck business is of course quite distinct from that of F. Boehm, Ltd., and the separate entrance of the former in Crutched Friars enables both quick despatch and delivery to be given. In a circular issued by the company this week regret is expressed that Mr. F. Schaer, who has been connected with the business for about twenty years, has, owing to continued ill-health, resigned his position as a director. The agencies for Stoess & Co., of Heidelberg, and Heinr. Aug. Schoeller Soehne, of Dueren, have been transferred to Mr. Schaer. The circular also notifies that Mr. H. Kunzer, Mr. John Spahn, Mr. O. Bloethner, Mr. C. A. Reihl, Mr. H. S. Watts, and Mr. H. H. Faber are associated with Mr. Boehm as managers.

MESSRS. F. SCHUTZE & CO., LTD., Black Bull Works, Caledonian Road, London, N., celebrated on May 25 the thirtieth anniversary of their establishment by the laying of the foundation-stone of an extension of their factory. The ceremony was performed by Mrs. Schutze, the wife of the principal, and we give a photograph



that was taken on the occasion. Mrs. Schutze is standing with the trowel in her hand and a bouquet of flowers; her husband is standing on the other side of the stone with his two daughters on the left. The new building occupies a frontage of 120 feet long, and will be of two floors, giving accommodation for 150 work-people. It will be devoted to the manufacture of bandages, trusses, and other surgical goods, and the machinery will be worked entirely by electricity.

PHARMACEUTICAL SOCIETY.

NORTH BRITISH BRANCH.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on Friday, June 20, Mr. J. P. Gilmour in the chair. The business was chiefly preparatory to the annual meeting of the members of the Society in Scotland. In connection with the amendment of the National Insurance Act, it was explained that provision for the representation of pharmacists on Insurance Committees had been pressed on the notice of Mr. Masterman, M.P., and that a request had been made to him to receive a deputation on the matter; also to the Chancellor of the Exchequer to receive a deputation on the question of dispensing beyond the one-mile limit. The Vice-Chairman (Mr. Giles) referred to the retirement of Mr. Bremridge, speaking appreciatively of his work, and the Chairman stated that a copy of the minute would be sent to Mr. Bremridge.

THE ANNUAL MEETING

of the members of the Society in Scotland followed, Mr. Gilmour presiding. In his annual address he spoke of the vicissitudes which had attended pharmacy since 1907, when the Poisons and Pharmacy Act, 1908, was foreshadowed. The turmoil created by the agri-horticultural poisons provision was followed by

THE NATIONAL INSURANCE BILL,

by which the fundamental rights and whole future of the practice of pharmacy were gravely imperilled. He referred to the work that the passing of the measure entailed upon the Society and the Pharmaceutical Standing Committees on Insurance, speaking of the Scottish Committee particularly and its relation to the Executive. In the course of his remarks, Mr. Gilmour mentioned that pharmacy representatives on the Advisory Committee had in the course of conversations with the Commissioners explained the position of the Society as the keepers of all the relative registers, and as the only authority legally competent to certify the validity of the qualification of applicants for admission to the dispensing panels, and it was arranged that all such applications should be submitted for verification to the Society. There had been difficulty in getting clerks to Insurance Committees to fulfil their obligations in this respect. Mr. Gilmour spoke with satisfaction of what had been done in Scotland by Mr. J. Rutherford Hill and his office staff. As to the one-mile limit, he stated that the Insurance Commissioners had fixed provisionally three miles as, *ceteris paribus*, a reasonable distance, but without warning or reference to the Commissioners the Chancellor of the Exchequer personally intervened and committed himself to the one-mile limit. Mr. Gilmour commented strongly upon this interference by the Chancellor, and explained what the Pharmaceutical Standing Committee (Scotland) had done to try to get a modification of the condition. He then spoke of the position of pharmacists on Insurance Committees, stating that in Scotland they have got representation on twenty-two only out of fifty-six Committees, and there is little prospect of an improvement upon this, except by soliciting statutory representation of pharmacists on the Committees. He also urged that they should press for the appointment of pharmaceutical Commissioners. Mr. Gilmour next dealt with

THE PROPOSED ASSISTANTS' QUALIFICATION,

saying that it is free from most of the potential disadvantages of one on Continental or Irish lines, but its enactment had not been sought spontaneously by the Pharmaceutical Society. It is "the resultant of a parallelogram of coercive political and other forces." As to the Report of the Departmental Committee on the supply of drugs to insured persons, he expressed doubt about giving effect to the suggestion as to a dispensers' qualification, remarking that the Society must be very careful to conserve the status and rights of duly qualified pharmacists. It is suggested that the qualification of a dispenser should be according to requirements laid down by the Privy Council. He regarded it as an intolerable

innovation that the Privy Council should be placed in such a position. From the outset everything relating to examination and qualification under the Pharmacy Acts has been under the control and management of the Pharmaceutical Society, and they could not regard with anything but disapproval any proposal to transfer such functions to the Privy Council. Mr. Gilmour then spoke on Insurance dispensing, the Shops Act, and local organisation. With reference to the last subject, he showed that before 1911 ten Chemists' Associations existed in Scotland; now there are thirty, besides three Assistants' Associations and three Social and Recreative Associations. The membership of the thirty is 1,212, while there are 172 in the Assistants' Associations and 340 in the Social and Recreative. The number of chemists' retail business premises in Scotland is 1,378. He also spoke on other phases of the local organisation movement and the

AFFAIRS OF THE BRANCH,

stating that despite augmented work the expenditure for 1912 was less by 78% than for 1911. There had been an increase of twenty-seven candidates for the Qualifying examination, and a further rise—namely, 1.02—in the percentage of passes, two concomitant circumstances of good augury for the immediate future supply of qualified pharmacists. The preoccupying effects of the Insurance Act made it impossible to get contributions from sources normally productive of papers, and only three instead of six scientific meetings were held. But for this paucity there was ample compensation in the exceptional excellence of the papers. Having mentioned the deaths of Mr. James Heron, Mr. David Murdoch, and Mr. John Robertson, Mr. Gilmour, in concluding, tendered his acknowledgments to the members of the Society, to his colleagues on the successive Executives for electing him Chairman, and to Mr. J. Rutherford Hill and office staff.

ELECTION OF EXECUTIVE.

The ASSISTANT SECRETARY reported that 902 nomination-papers had been issued, and as the result seventy-five members were nominated for the Executive, twenty-six of them expressing willingness to accept office. On June 12 847 voting-papers were issued, and 310 of these were returned; but as five of them were informal, 305 were recorded, with the result that the following seventeen candidates received a majority of votes:

David Storrar, Kirkcaldy	267
James Pinkerton Gilmour, Glasgow	256
William Giles, Aberdeen	242
William Doig, Dundee	232
Thomas Mackenzie, Inverness	221
James Lennox, North Kelvinside, Glasgow	207
John William Sutherland, Glasgow	200
James Jack, Arbroath	196
Archibald Currie, Leith	194
James Nesbit, Portobello	186
William Beaverley Cowie, Edinburgh	184
John Alexander Forret, Edinburgh	181
John Hutchison Fisher, Dunfermline	175
William Potter Wilson, Haddington	174
Anthony McMillan, Glasgow	172
Wm. Stephen Glass, Edinburgh	171
Robert Gordon Drummond, Falkirk	169

Messrs. Mackenzie, Fisher, Glass, and Drummond are new members of the Executive, taking the places of Messrs. Martin Meldrum, R. Robertson, G. H. C. Rowland, and Geo. Somerville.

The following were the unsuccessful candidates:

Robert Robertson, Dunfermline	144
George Howard Charles Rowland, Edinburgh	135
Peter Buchanan McMurray, Helensburgh	130
William Cross Ferguson, Motherwell	130
Samuel Lawrence, Oban	130
Alexander John Clark, Edinburgh	107
Henry Dryverre, Bonnyrigg	90
Hugh Millar Robin, Edinburgh	51
Edward Brindle, Edinburgh	48

The Executive for 1913-14 consists of the President of the Society (Mr. Edmund White), the Vice-President (Mr. A. Sidney Campkin), and Messrs. W. L. Currie (Glasgow), David Gilmour (Dunfermline), and the seventeen first-named.

Mr. CHARLES SIMPSON (Aberdeen) moved, and Mr. JOHN HINKSMAN (Carlisle) seconded, the adoption of the

scrutineers' report, which was agreed to; and Mr. MERSON replied to an expression of thanks to the scrutineers (Messrs. J. P. Gilmour, D. Harley, R. L. Hendry, D. McEwan, G. F. Merson, and J. Muir).

ASSISTANTS' QUALIFICATION.

Mr. LENNOX said he had felt for long that the educational policy of the Society makes it exceedingly difficult for men to enter their profession. This had resulted in an increasing growth of unqualified men, who, because of the high educational standard, could not enter to become qualified. His opinion is that the Society had missed an opportunity in not submitting their proposals before Mr. Masterman's Departmental Committee. The consequence was that they had the Privy Council coming in with a proposal to alter their educational methods. He was strongly against the proposal for an assistants' qualification. His feeling was that the lower standard would become the only qualification, and they would have a decreasing number of persons able to keep open shop, with a corresponding increase in multiple shops, and dispensing would be done not under qualified supervision.

Mr. A. CURRIE deplored the setting up of an assistants' qualification, or any bringing down of the standard.

Mr. J. H. THOMSON (Lochee) and Mr. SUTHERLAND also spoke. The latter thought the meeting should formally express its disapproval of an assistants' qualification, especially in Scotland.

The Chairman, Vice-Chairman, and Mr. W. L. Currie also spoke, and it was agreed to "Wait and see."

A vote of thanks to the Chairman was cordially passed.

WESTMINSTER WISDOM.

The Week in Parliament.

MOTOR-SPIRIT DUTIES.

Mr. Masterman announced on Monday that the actual receipts paid into the Road Improvement Fund from the establishment of the Board to the present time were in respect of motor-spirit duties 2,011,718*l.* 19*s.* 11*d.*

ISLINGTON TUBERCULOSIS DISPENSARY.

Mr. T. Lough asked the President of the Local Government Board in the House of Commons on Monday, whether a draft scheme for the establishment of a dispensary for the treatment of persons suffering from tuberculosis was submitted by the public health committee of the Metropolitan Borough of Islington to the Local Government Board in the early part of May, and, if so, what action, if any, has been taken by the Board upon it; and whether he is aware that inconvenience is being caused to the local health authority of Islington by reason of the delay in obtaining the Board's sanction to a scheme prepared in the interest of the public health of Islington.—Mr. Burns said the facts are as stated in the first part of the question. The Local Government Board has invited the observations of the London County Council on the proposals contained in the draft scheme, and the Insurance Commissioners have been communicated with. He regretted the inconvenience which had been caused by the delay, and stated on Thursday that owing to the report of his inspectors he could not approve the dispensary.

NATIONAL HEALTH INSURANCE.

MEDICAL BENEFIT EXTENSION.—On Monday it was stated officially, in reply to Mr. William O'Brien, that Lord Ashby St. Ledgers' Committee, which has been considering the extension of medical benefits to Ireland, has not yet reported, and that therefore the Chancellor of the Exchequer is unable in the meantime to make any statement.

AMENDING BILL.—Under the ten minutes' rule Mr. Lloyd George introduced on Tuesday, June 25, his Bill to amend the National Insurance Act. He said it contained no proposal which would touch the main structure of the Act. It had been only six months in existence, but from all the reports which he had received, in the majority of cases the Act was working smoothly and

well. (Hear, hear.) The Bill had been brought in after consultation with the friendly societies, trades unions, and approved societies. He outlined the provisions thus:

The first provision redeems a pledge given by the Prime Minister to take statutory authority for the additional grant made this year for Medical Benefit. It had come to their knowledge that in different parts of the country certain employers are making deductions in excess of the statutory amount, and they proposed to introduce a clause penalising this practice. (Hear, hear.)

There will be another clause redeeming a pledge given to the medical profession about voluntary contributors who stop under the Insurance Act after their income has exceeded 160*l.*

There is also a clause dealing with casual labour, providing that the burden upon the worker should be more in proportion to the period of his employment.

With regard to the workers over sixty years of age it is proposed to sweep away all the existing distinctions, and enable all contributors to obtain all benefits of the Act up to seventy years of age whatever their age at insurance. At present it is practically impossible for persons after sixty-five to obtain Medical Benefit, but it is now proposed that full Medical Benefit should be assured to every contributor to the end of life. (Hear, hear.)

Another difficulty arose with regard to the uninsured members of friendly societies who are without Insurance benefits, and it is proposed that 2*s.* 6*d.* per head given in respect of insured persons should be extended to all members of friendly societies.

Although many persons are exempt from insurance, the employers' contributions are still paid. It is now proposed that medical and sanatorium benefits should be provided for those persons out of the contributions of the employer and the State.

In respect of illness it has now been decided that the workman should be responsible for his own arrears only, and not for those of his employer. They proposed to meet the extra cost by extending the sinking fund from eighteen and a half years to twenty years, and in addition they proposed there should be a contribution from the State during the present financial year of 65,000*l.*, which in a full year would come to 207,000*l.*

After a few remarks from Mr. Bonar Law, leave was given to introduce the Bill, and the second reading was fixed for Monday next. (See p. 45 for other particulars.)

PAYMENTS TO CHEMISTS.—In the House of Commons on Thursday, Mr. Percy Alden asked the Secretary to the Treasury whether he is aware that a number of chemists in certain counties have not yet been paid for the first quarter's working of the National Insurance Act, and that many of these men are unable to give credit for long periods owing to the fact that they themselves have to pay cash to the wholesale druggists; and whether under the circumstances he will arrange that these accounts shall be paid as speedily as possible?—Mr. Masterman replied that the answer is in the negative. The regulations incorporated in the agreement with the chemist provide for periodical advances, although a final settlement cannot be fully made till the end of the medical year. Advances have been made in some cases up to 75 per cent. of accounts rendered to the end of last quarter, and he is not aware of any cases where payment has not been made where accounts have been rendered.

DISPENSING OF MEDICINES.—Mr. C. Bathurst, M.P., asked the Chancellor of the Exchequer in the House of Commons on Thursday whether, in pursuance of the recent Report of the Departmental Committee appointed to consider the conditions imposed by Section 15 (5) (iii) of the Act, there has been introduced into the amending Bill of the present Session a provision authorising a person, firm, or body corporate, who or which has entered into arrangements with an Insurance Committee for the dispensing of medicines for insured persons, to employ in such dispensing, not necessarily under the supervision of a registered pharmacist, any person who shall have satisfied such conditions as may be prescribed by the Privy Council for that purpose; and if not, whether he will accept an amendment to that effect?—Mr. Masterman stated that the report is under consideration at the present moment, and he is not in a position to state what action will be taken in regard thereto.

COLOCYNTH-POISONING.—An unusual case of poisoning from colocynth is reported in "The Lancet." The patient, a woman of twenty-five, took 75 grains of colocynth, and in an hour suffered from severe vomiting and diarrhoea. For two days these symptoms persisted, morphine and atropine being administered subcutaneously, and finally chloretone gr. v. in olive oil every six hours. Recovery was uneventful.

DEED OF ARRANGEMENT.

Griffiths, Henry, 116 Pembroke Place, Liverpool, Chemists' Assistant.—Trustee: S. M. Hughes, 41 North John Street, Liverpool. Dated, June 13; filed, June 17. Liabilities unsecured, 118*l.*; estimated net assets, 125*l.* Among the creditors are the following: Robert Blackie (3*l.*); T. Durant & Co., Bristol (3*l.*); Davies & Co., Derby (3*l.*); Erasmic Soap Co. (5*l.*).

PRIVATE MEETINGS.

HENRY SEPTIMUS HAIGH, 50 Tylacelyn Road, Penygraig, Herbalist, etc.—A meeting of the creditors of this debtor was held at the Central Hotel, Cardiff, on June 20, under the presidency of Mr. J. E. Brooks. According to a statement of affairs presented by Mr. D. Richards, the gross liabilities amounted to 539*l.* 8*s.* 1*d.*, of which 201*l.* 17*s.* 5*d.* were fully secured. It was decided that a composition of 5*s.* in the pound be accepted, payable 3*s.* in three months and 2*s.* in six months, the bills to be secured to the satisfaction of Mr. J. E. Brooks, Messrs. Comley & Sons, and Messrs. Clarke, Dovey & Co. The following are unsecured creditors: Heath Bros., Manchester (20*l.* 4*s.* 3*d.*); Hope, Johnson & Co., Ltd., London (10*l.* 4*s.* 3*d.*); National Drug Co., Bristol (13*l.* 14*s.* 9*d.*); Potter & Clarke, Ltd., London (51*l.* 7*s.* 3*d.*); W. Ritchie & Sons, Ltd., Edinburgh (24*l.* 0*s.* 8*d.*); and Yardley & Co., London (15*l.*).

J. C. MITCHELL, The Grays Pharmacy, 58 High Street, Grays, Essex, and at Tilbury Dock, Chemist.—A meeting of the creditors was held at the offices of Messrs. Francis Nicholls, White & Co., C.A., 14 Old Jewry Chambers, E.C., on June 23. The representative of Messrs. S. Maw, Son & Sons was voted to the chair. The statement of affairs presented showed liabilities of 1,569*l.* 8*s.* 3*d.*, of which 1,220*l.* 17*s.* 5*d.* was due to trade creditors. The bank was partly secured creditors for 1,072*l.* 10*s.* 10*d.*, of which 348*l.* 10*s.* 10*d.* was expected to rank. Mr. G. M. White having narrated the history of the business since 1904, the position was discussed, and it was unanimously decided that a deed of assignment should be executed to Mr. White, and that a committee of five of the principal creditors should be elected. It was stated that the committee could consider any offer which might be made. The following are creditors: S. Maw, Son & Sons (177*l.*); Fredk. Allen & Co. (11*l.*); W. Butcher & Sons (14*l.*); Beaufoy & Co. (13*l.*); The British Drug Houses, Ltd. (129*l.*); A. H. Cox & Co., Ltd. (15*l.*); Gussock Bros. & Co., Ltd. (20*l.*); Erasmic Soap Co., Ltd. (17*l.*); G. B. Francis, Grays (100*l.*); C. J. & J. Field, Ltd. (11*l.*); Houghtons, Ltd. (36*l.*); Idris & Co., Ltd. (131*l.*); Jones & Co., Ltd. (15*l.*); McGgeson & Co., Ltd. (20*l.*); Robinson & Sons, Ltd. (11*l.*); Suttley & Silverlock, Ltd. (11*l.*); Sangers (169*l.*); and Shirley Bros., Ltd. (35*l.*).

TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired, for a list of which, with particulars as to registration, see "The Chemists' and Druggists' Diary," p. 444.

(From the "Trade-marks Journal," June 4, 1913.)

- "**REXALL**" ; for chemicals (1). By United Drug Co., 114 Old-hall Street, Liverpool. 350,856.
- "**WESTROPOL**" ; for chemicals (2), and for goods (47). By the Weston Chemical Co., Ltd., 13 Abchurch Lane, London, E.C. 350,667/8.
- "**VERMERAD**" ; for fertilisers, vermin-destroyers, etc. (2). By E. E. Keighley & Co., Ltd., 312 Wincolmllee, Kingston-upon-Hull. 351,523.
- "**VARICINE**" ; for medicinal products (3). By Marie A. L. Delcroix, 104 Rue du Faubourg Poissonnière, Paris. 348,405.
- "**ZORAYA**" ; for ointment (3). By J. O. Albentosa, 8 Talbot Court, London, E.C. 350,068.
- "**CHURCHILLFOLIOL**" , for compound hypophosphites; "CHURCHILLIMOL" , for hypophosphites of lime; "CHURCHILLMAGOL" , for hypophosphites of manganese; "CHURCHILLIROL" , for hypophosphites of iron (3). By A. Borney and J. Jarvis, 12 Rue de Castiglione, Paris. 350,626/27/28/30.

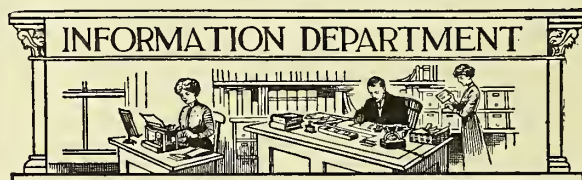
"**CU-RICA**" ; for pills (3). By W. Bentley, 603 London Road, Derby. 350,693.

Circular chain device; for medicinal chemicals (3), and for non-medicated instruments, etc. (11). By Johnson & Johnson, Corner of George and Hamilton Streets, New Brunswick, New Jersey, U.S.A. 350,914/5.

"**DIPCO**" ; for an insect-repeller from Dalmatia (3). By the Dalmatian Insect Powder Co., 24 Southwark Street, London, S.E. 350,866.

Label device with word "PARAFOLE" ; for a medicine (3). By Parke's Drug-stores, Ltd., 65 Harwood Street, London, N.W. 351,623.

"**SYNTHALIN**" ; for medicinal chemicals (3). By Chemische Fabrik auf Actien (vorm. E. Schering), 170-171 Müllerstrasse, Berlin. 351,691.



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).

Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Would any reader who knows please inform us by postcard or telephone of the names and addresses of the agents or makers of the articles mentioned in the following inquiries:

- 117/27. "Tuberlactin" : supply.
- 117/30. Elliott's roup-pills: maker.
- 117/300. Ferguson's pills: makers.
- 170/350. "S-salvinka" soap: supply.
- 114/16. Peter's paper-grips: supply.
- 170/35. "Shamrock" skin-soap: makers.
- 114/17. Seagrave's plaster-of-Paris bandages.
- 110/10. "Elephant" brand twine: suppliers.
- 119/46. Dr. Hogarth's chest-expanding braces.
- 119/18. Hoffmann's quinine pessaries: makers.
- 116/64. Japanese paper air-cushions: importers.
- 116/44. Mortlock's bone-dust, for cleaning plate.
- 117/45. "Spirit. Amyl. Valerian. Co." : suppliers.
- 117/301. "Débutante" sachet powder: proprietors.
- 114/26. "Yap" (a kind of menthol snuff): suppliers.
- 119/64. "Galega Water," for use in toilet preparation.
- 117/270. Feeding-bottle (Registered No. 18,013): supply.
- 115/2. Hetworth's colic drinks and embrocation (for cattle).
- 116/51. Exley's concentrated erpiol capsules: makers or suppliers.
- 117/271. Loofah socks with indiarubber sponge fitted to each heel.
- 100/74 and 119/21. "Protogulin" or "Thrombin" (for dental use).

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to where the following articles are obtainable wholesale. We shall be glad to repeat the information to others who send to this Department a stamped and addressed envelope for the purpose.

- "Aerial" medicator, 116/57
- Agmel, 114/20
- "Arcticanus" milk and meat preservative, 116/44
- Bravovim, 114/10 and 114/11
- "Bromo" toilet-paper, 117/48
- Caffeine-free coffee, 118/7
- "Castner" sodium peroxide (for export), 117/432
- Chologestin, 117/26
- Clayton anilin oil, 117/43
- Cooper's dips (for Germany), 112/5
- Copper sulphate (Dutch inquiry), 113/3
- Cornford's antiseptic hygienic fluid, 114/16
- Crosfield's "Pyramid" sodium silicate (for Japan), 108/62
- Edward's "Bunion Balm," 115/54
- Emery-boards (for manicurists), 117/720
- Emulsifiers (hand-power), 116/69
- Eunatrol, 112/70
- Gluten flour, 114/12
- Isinglass (importers), 116/65
- Kelene (makers and London agents), 109/28
- Langdale's essence of cinnamon, 112/361
- Linstead's (Mrs.) ointment, 100/45
- Lithopone Red Seal (for Japan), 114/19.
- Lozenge-cutting machines, 114/8
- Lydia E. Pinkham's preparations, 110/3

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

The B.P.C. Presidential Survey,

which has been your most interesting theme for some time past, has now reached a period that comes within my own recollection. The fact that one of the Presidents named in your last issue is still with us must be a matter for congratulation not only to Mr. Charles Umney's many business friends, but particularly because his son, Mr. J. C. Umney, this year fills the position so worthily held by the father twenty-five years ago. I suppose there is always some remark or incident at every Conference that sticks in the memory, and the particular point that has clung to me all these years was an epigram by Mr. Umney in relation to the manufacture of scale preparations—"the more you boil 'em, the more you spoil 'em." Not having myself embarked on scale-making, I have never put the value of this remark to the test, but I am quite sure that it deserves to be kept in mind by every practical hand. I mention it now more by way of a psychological curiosity, as showing how things that are of much greater consequence slip through the sieve of memory while chance phrases remain, just because they hit the imagination and are photographed indelibly without conscious effort or purpose on the mental retina.

Insurance Dispensing

need not be carried on at all hours or at any particular hour of the day, unless it be once in a "blue moon" in an emergency; and I was pleased the other day to see a notice displayed in a Welsh watering-place stating the hours at which both doctors and chemists are in attendance—the former for consultation, the latter for dispensing. The hours were quite reasonable and sufficient in each case, being (if my memory serves) from 9 to 7 for dispensing on ordinary days, and from 9 to 1 on closing days. There was, too, I believe, a modification for Saturdays. The hour for dispensing on Sundays was also stated. No prescriptions except such as are marked "Urgent" need be dispensed outside of these hours, and the relief to the chemist is evident, while the public suffer no hardship or indignity, whatever.

Such an Arrangement

does not, of course, meet the case of the assistant's half-holiday, which, as reflected in the prosecution of Messrs. Boots at Sheffield, is reduced to an absurdity. Parliament has doubtless a legal, though it has no other right to pass mutually contradictory laws, and Magistrates may have no choice as to their enforcement, but in such a case the law (as Dickens said of Mr. Nupkins) commits itself a good deal more damagingly than its victim. An arrangement ought at once to be legalised for enabling an assistant to return to work for this necessary purpose, on condition of receiving a *quid pro quo* at another time. No such hard-and-fast rule as the present one exists, or would be tolerated, in the Civil or other public services. In respect to Insurance dispensing, we, too, are Civil servants, and we ought to be allowed a little of the discretion which is accorded to most heads of departments.

The Half-holiday Movement

is not to gain universal recognition without a struggle. Pleas of public convenience and necessity will always be urged, but I venture to think that the real motive is not the public interest on the part of many pharmacists, but the desire to take advantage of every possible opportunity of getting all they can for themselves, no matter whether in doing so they deprive others of their legitimate rights. Doubtless there are in every business sordid tradesmen who try to sneak out of the obligations of honour, and it is a crowning mercy that the strong arm of the law can now be invoked to keep such men in the line of duty. Those who, like myself, have for many years lived under a voluntary half-day holiday system know well that the hardship to the public is largely

imaginary. I hope that the craft will hold fast to the half-holiday, and I congratulate Mr. Hart on the excellent fighting speech in which he voiced the protest of the meeting of Glasgow employers and assistants against any proposal to introduce the thin end of a wedge that would, if inserted, soon split the half-holiday movement into fragments.

Contracts in Restraint of Trade

are not necessarily void, nor are they necessarily good; everything depends on circumstances, and thus each case must be decided on its own merits. There is, in fact, no settled law on the subject, every Judge deciding for himself what is reasonable and what is unreasonable. At one time it used to be held that contracts in restraint of general trade were void, and that those in partial restraint were good; but no such distinction is now recognised, the only point being whether the restraint is sufficient to protect the interests of the party for whose benefit the covenant was undertaken. In the case decided last week, the restraining clause was held to be perfectly reasonable, but the Judge took the defendant's view as to the interpretation of the clause, and so the plaintiff lost his case. Another Judge might have held that a ten-mile radius is unreasonable. I think that a distinction might often be made on the basis of population. In the case of a pharmacist, for example, a five-mile radius may be quite reasonable in a small country town, while a half-mile radius may be unreasonable in a densely populated district of a large city.

Salt of Sorrel,

according to Nicholson (1700), when obtained from wood sorrel, was a crystallised salt containing rather more than a third of its weight of vegetable alkali, the remainder being acid of sorrel, or oxalic acid. Brookes (1773), in a note on the *Sal essentielle Acetosae* of the Edinburgh Pharmacopœia, says "these salts are generally acid, but never *alkalious*." These essential salts are defined by Quincy as salts "obtained by Crystallization from the Juices of Plants," and it is difficult to understand how either salt of sorrel or salt of lemons can have been other than acid when pure. "Salt of lemons," by the way, is a term of more than one significance. The formula given for the substance so-called in "Pharmaceutical Formulas" is, like the whole article of which it forms a part, of extraordinary interest, but it is evidently quoted from a late translation of Porta's work (the name of which is not given), as the original author died in 1615. The true salt of lemons, according to Quincy's definition, is citric acid, to which indeed the name was usually given for many years after its production by Scheele in 1784. Nicholson, in the work already referred to, mentions it first in his list of vegetable salts; and Clark, in his "Conspectus" of 1811, in a note on the recently officialised citric acid, says "it is sold in London, in a very pure state, under the name of Coxwell's Concrete Salt of Lemons." Even so late as 1839 Ure says "Salt of lemons is citric acid." I have not been able to discover when the name was first transferred to oxalate of potash, but I think it must have been before Gray so used it. Rennie gives the formula for essential salt of lemons as equal parts of pot. bitart. and pot. superox., and I fancy his book appeared before 1823; the second edition was published in 1829. But the reason for the transfer of names is evident; long before either salt was isolated, lemon-juice and sorrel-juice were used indifferently to take out ink-stains and ironmould. I have several old receipt books proving this, one of them a translation from Lemery, dated 1711.

SEAWEED PAPER.—Mr. T. Ingham, a Liverpool chemist, has invented a "seaweed paper," which is claimed to be fire-proof, waterproof, odourless, and is not affected by variations of temperature. It also resists the action of nitric, sulphuric, and hydrochloric acids. A factory is to be established in Liverpool.



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Editorial Articles.

B.P.C. Presidential Survey.

1893-1896; Corder, Martin, and Martindale.

THE thirtieth meeting of the Conference opened in Nottingham Castle on the evening of Monday, August 14, 1893, and "not since Mr. Bengier inaugurated these initiatory evenings at Bath a few years earlier had the conditions for enjoyment been in every respect so favourable as in the Castle. Mr. Octavius Corder, the President of the year, with Mrs. Corder and the Deputy-Mayor, Mr. Fitzhugh, and Mrs. Fitzhugh, received the guests." So we wrote at the time. Mr. Octavius Corder was the third of the 1851 "Square" men to reach the presidential chair of the Conference. Reynolds and Groves being his predecessors. They had been at the School of Pharmacy together, and Richard Reynolds spoke of Mr. Corder as his oldest friend. He had been apprenticed at Exeter, and after he qualified (which in those days meant the Major diploma) he started in business in



OCTAVIUS CORDER.
(From an 1893 photograph.)

Norwich, where he remained until his death in 1910. He was an ardent botanist, and examined in that subject for the Pharmaceutical Society for twenty years (1874 to 1894). It was not surprising, therefore, that this should have predominated in his Presidential Address at Nottingham. After the preliminary business in the Exchange Hall on Tuesday morning, August 15, Mr. Corder spoke briefly on apprenticeship and examination, then on some herbaceous plants in common cultivation, especially those connected with medicine. Before he had got far, he introduced Gerard and his Herbal, this being a prelude to a delightful talk on Herbs generally and all that they contain. The business of the Conference during Mr. Corder's year was marking time. There was "no indication," said the Executive Committee, "of any decline in the interest taken in the work of the Conference," and there was a slight increase in

members' subscriptions (462*l.* altogether). Twenty papers were read at the meeting,

"the tone of which was very sleepy, this being due probably to the very hot weather. The afternoons of both days showed the usual symptoms of rush and intolerable dullness (owing to the small attendance). It is therefore a question whether a complete alteration should not be made in the order of the proceedings. A good audience cannot be obtained after luncheon, so the plan which we would suggest would be to have a four hours' sederunt each day—viz., from 10 A.M. to 2 P.M."

We quote from remarks in the *C. & D.*, when it was also observed that "the best men and the best papers occupy comparatively the shortest time." On this occasion Dr. Frank Clowes read a paper on the Nottingham University College pharmaceutical education arrangements—one of the last and best schemes of provincial pharmaceutical education. Other new contributors were Messrs. H. Bowden, E. J. Parry and P. A. Estcourt, Lewis Ough, Edmund White, J. H. Hoseason, and J. A. Forret.

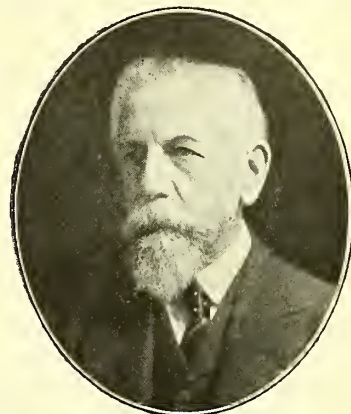
The Conference had some difficulty in regard to the meeting-place for 1894. The British Association was going to Oxford then, and Oxford chemists were not particularly desirous of having a meeting of the Conference, certainly not at the same time. Mr. Druce conveyed the invitation, and said it was rather a daring thing for any town to come forward and invite the Conference to visit it after one had experienced the lavish hospitality of Nottingham. Thus the Conference was once again faced with its old trouble, which payment for tickets was designed to overcome. It is with us still, so that one doubts if members *are* willing to pay for what they get, as was alleged on this occasion. Oxford having been decided upon, Mr. N. H. Martin, of Newcastle-on-Tyne, was elected President, and Mr. John Moss Treasurer, in succession to Mr. R. H. Davies, who

retired on account of bad health and was made a Vice-President, but did not live long to enjoy the honour.

The Oxford meeting was held in Balliol College Hall on July 31 and August 1, 1894. The Executive reported that increased membership was "still a desideratum." The members' subscriptions had diminished to 435*l.* Against this subdued note must be set the remarkable success of the Oxford meeting. It may

be that the historic surroundings, the facilities which the Local Committee had obtained for the members as regards inspection of the Colleges, and the delightful compactness of the Conference party contributed to make the meeting so memorable, while the President entered eagerly into the academic spirit of his environment. Mr. Martin, speaking from his personal experience of retail pharmacy, his intimacy with the founders of the Conference, and familiarity with the requirements of the medical profession and the public, delivered a Presidential Address which attracted wide attention at the time. He was still on the bright side of fifty, having been born at Trebarveth, in Cornwall, on May 2, 1847, and after his education at Trevarth Grammar School he was apprenticed to Mr. Solomon, of Penryn, Cornwall, for four years from 1863, after which he was for a year an assistant to Mr. Blandford, of Bruton Street, Berkeley

Square, London. During that time he attended the lectures of Professors Bentley and Redwood at the School of Pharmacy, passing the Minor and Major examinations, the latter on December 6, 1868, by which time he was an assistant with the late Henry Deane, of Clapham, where he remained until 1873, when he took over the retail pharmacy of Mr. William Ransom at Hitchin. This he retained for a year and a half; then he went to Newcastle-on-Tyne as partner with Mr. H. B. Brady. Eighteen months later Mr. Brady retired, and Mr.



NICHOLAS HENRY MARTIN.
(From a recent photograph.)

Martin became proprietor of the business, which was subsequently converted into a private limited company as Brady & Martin, Ltd. Before Mr. Martin went to Newcastle the city had a pharmaceutical reputation on account of the lectures which Brady, Proctor, and others had given to chemists' assistants and apprentices. Lectures similar to these were revived through Mr. Martin's instrumentality in 1885, when the North of England Pharmaceutical Association formed a School of Pharmacy in co-operation with the Durham College of Science. At this school physics and chemistry were taught by Professor P. P. Bedson, pharmacy by Mr. B. S. Proctor, materia medica by Mr. N. H. Martin, and botany by his partner, Mr. C. E. Stuart, B.Sc. We reported on October 16, 1886, that nine students entered for chemistry, twenty-two for botany, and twenty-six for pharmacy and materia medica. At that time there was much talk about a compulsory curriculum, and assistants and apprentices took advantage of such classes; but proprietary schools superseded them, and enthusiasts such as Mr. Martin had to abate their efforts. Besides his interest in local pharmaceutical affairs and in the British Pharmaceutical Conference, Mr. Martin was a member of the Pharmaceutical Council for a number of years. He is a member of the Council of the Society of Chemical Industry, having been Chairman of the Newcastle Section, and he was President of the Pharmaceutical Chemistry Section of the International Congress of Applied Chemistry held in London a few years ago. He is as well known to leading American pharmacists as he is to us, and pharmaceutical and scientific honours have been showered upon him.

Mr. Martin's Address to the Conference was on the relations of medicine and pharmacy. It was pregnant with plain speaking, especially in regard to the freedom with which medical men had encouraged the introduction of proprietary preparations into medicine—a circumstance due, he considered, to the fact that "the practical side of being able to treat the cure of disease by the intelligent use of medicines" had been very largely neglected since medical apprenticeship had been abolished and abstract sciences imported to a greater extent into the medical curriculum. Dealing with pharmacy, he deplored unhealthy competition, attributing some of this to the provisions of Section 5 of the Pharmacy Act,



NICHOLAS HENRY MARTIN.
(From our 1894 portrait.)

1868, whereby Tom, Dick, and Harry were admitted to the Register of Chemists and Druggists. Pharmacy is a profession, and not a trade, said Mr. Martin. The Major certificate should be the only qualification for the practice of pharmacy. Sir Henry W. Acland, Bart., M.D., Regius Professor of Physic at Oxford, was one of those who welcomed the Conference on this occasion, and he also supported the vote of thanks to the President which Mr. Michael Carteighe proposed. No fewer than twenty-seven papers were communicated. Mr. G. Claridge Druce gave the first of his delightful talks on local botany, which became a feature of Conference meetings for several years. Other contributors to the proceedings who had not before figured at the Conference were Messrs. E. W. Lucas, C. E. Stuart, Richard Usher, J. F. Liverseege, and J. T. Hornblower.

The Conference met next at Bournemouth (Shaftesbury Hall) on July 30 and 31, 1895. Mr. Martin on this occasion addressed the Conference on the dignity of pharmacy, the federation of local Associations, membership of the Pharmaceutical Society, amendment of the Pharmacy Act, the duties of pharmacy, the scope of the Pharmacopœia, pharmaceutical research, and the pleasures of pharmacy. It was a sedate effort compared with the thunder of the previous year, yet as informative and instructive to his hearers. For the first time in many years the Executive Committee reported that the number of paid-up members was 1,130, and the receipts from them amounted to 454/. Only seventeen papers were communicated. Among new authors were Mr. C. E. Sage (who wrote in association with Mr. E. J. Parry on oils), Messrs. N. Crossley Jones and P. W. Jones, and Professor Greenish—the title marks Mr. H. G. Greenish's appointment to the Pharmacy chair in Bloomsbury Square. The discussions at this meeting were an excellent illustration of a circumstance upon which we have not commented previously—namely, the extemporaneous contributions to pharmacy which, in the opinion of many, are the most attractive feature of Conference meetings. On this occasion Mr. Elborne read a paper on weights and measures, whereupon Mr. Carteighe made a most illuminating speech advocating the introduction of the metric system into the British Pharmacopœia side by side with the British system. Those who have visited the Conference regularly, or even occasionally, cannot fail to recall instances in which the discussions upon papers have been of greater value than the papers themselves. Indeed, some meetings have historic interest, largely on account of the speeches that have been made by men who have rarely contributed with the pen to pharmaceutical literature. Mr. Carteighe was essentially a man of that kind. The Bournemouth meeting was remarkably successful, and its musical entertainments were on a high key that has seldom been topped since.

It was decided to meet in Liverpool in the following year, and on that occasion Mr. William Martindale again occupied the chair. Once more in his time a peer of the realm welcomed the Conference, the Earl of Derby being Lord Mayor of Liverpool. He was present when the proceedings opened in the Arts Theatre of University College on July 27, 1896. Mr. Martindale's Address was devoted to a consideration of the advances in pharmacy since the previous meeting in Liverpool in 1868. The Address was pitched on a minor key, this being in sympathy with the Executive Committee's report, which gave prominence to a suggestion that the Committee would have to economise in the produc-

tion of the "Year-book," the reason for this being that members' subscriptions had fallen to 396/. About this time people were wondering if the Conference could really go on, and it was then that some members began to increase their subscriptions beyond the official 7s. 6d. The papers, twenty-two in number, were good, including one by Mr. Leo Atkinson on radiography, which marks the introduction of this means of diagnosis into medicine; and other new contributors were Mr. Charles T. Tyrer, Mr. Stewart Hardwick, Mr. Frank Browne, and Dr. Gordon Sharp. Liverpool gave the Conference the tonic it needed, and before Wednesday's proceedings closed with the election of Dr. Charles Symes to be President at Glasgow in 1897, the members knew that Belfast would be ready for them in 1898. On the day following the members visited Eaton Hall, Chester, and Hawarden. A deputation, consisting of the President (Mr. Martindale), Dr. Charles Symes, Mr. J. L. Ewing, Mr. W. Paterson Evans, Mr. W. A. H. Naylor, Mr. T. B. Groves, Mr. S. R. Atkins, Mr. Grose, Mr. W. G. Cross, and Mr. T. H. Wardleworth, was introduced to Mr. W. E. Gladstone by Sir Edward Evans. We reported the reception at the time, and need not repeat the details, but we quote from Mr. Gladstone's speech in reply to Mr. Martindale's remarks:

"Two thoughts struck him in regard to their body. One was that during his lifetime there had been very great elevation in their profession in raising the knowledge and in improving the education of those who conducted the chemists' business. Really it was a wonderful thing when one thought of the millions and millions of prescriptions which were made up with so few mistakes. For his own part, he had never been the subject of such a mistake. (Laughter.) The other was the recollection that about sixty years ago, when he was member for Newark, something or another was introduced into the House of Commons which affected chemists and druggists very materially. He remembered the steady fire of opposition which was directed against that measure, and he believed he was correct in saying that they were successful in their resistance. During the last sixty years he did not think a great deal of mischief had been done, and he should be very well satisfied if during the next sixty years no more mischief and as much good were done."

Mr. Gladstone's reference was to Mr. Benjamin Hawes' Bill of 1841, which proposed to create a Medical Council that would have complete control over chemists' shops, but gave chemists no representation on the Council.

Our Index Number.

This issue completes the first half-year of 1913, and there is included in it the usual index of the contents of Volume lxxxii. The advantage of having a complete index compiled upon a rational basis is, we have reason to believe, appreciated by many of our subscribers. To be able to turn up readily some item of the many interesting points which have been dealt with in the past six months places our readers in a position to use the information long after ephemeral matters have ceased to be of practical interest. Some there are who have not turned to their advantage the facilities thus provided, but we would remind them that

Index learning turns no student pale,
Yet holds the eel of science by the tail.

Particularising for a moment, one has only to glance at the index to note the thousands of references which we claim have been made under a plan which technical readers can utilise to the full. Under the entry "National Insurance Act," for example, which has this half-year occupied so much of our space, there are a thousand references. Recognising that the mere recital of pages is

wearisome and practically useless for reference, we have classified the items under about 125 headings, and it is surprising how readily the thousand and one inquiries which we receive on this and other topics can be answered in a few minutes by means of this key. There is one point upon which we have occasionally received complaints—that is, in regard to the numbers of the pages to which the index refers. These are in all cases the folio numbers given at the *bottom* of the pages of the weekly issues. This has sometimes been found to cause slight inconvenience, but as it is done in accordance with Government regulations which refer particularly to trade publications of wide circulation, this cannot be obviated.

Drug Committee's Report.

The National Insurance Act Amendment Bill contains nothing, so far as Mr. Lloyd George indicated in his speech introducing it, which will affect the legal position of registered chemists as dispensers of medicine. This should set to rest any fears arising from the Departmental Committee's second recommendation referring to drug-store proprietors, and the third recommendation, as to the employment as dispensers of persons who satisfy conditions prescribed by the Privy Council. The text of the Bill is not available at the time we write, but the Pharmaceutical Council will at its meeting next week prepare for any eventualities which call for prompt action to protect the provisions of the Poisons and Pharmacy Acts as regards chemists' qualifications, which were so strongly commended by the Departmental Committee. The Report has been received by the trade in a very quiet spirit, perhaps because it was not generally recognised that there was a feeling of considerable uncertainty in certain quarters, which has not been justified by the Report.

[On Thursday afternoon we obtained a copy of the Bill. It contains nothing directly or indirectly providing for any of the Departmental Committee's recommendations. It will be noticed that Mr. Bathurst, M.P., is moving to get provision for the Privy Council dispenser idea embodied in the Bill. Mr. Lloyd George is out of town, owing to a threatened breakdown, but Mr. Masterman states that the Report is under consideration.]

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale.

Beryllium Metal.—The characters of beryllium are thus described by Fichter and Jablczynski ("Apoth. Zeitung"): Beryllium is very hard, scratches glass, and is only marked with difficulty by a file. The colour is steel-grey. At ordinary temperature the ductility cannot be observed, as the metal is brittle and falls to pieces when hammered. At a higher temperature it becomes ductile. It melts at about 1,280°, and does not boil even at 1,900°.

Atomic Heat.—According to Dulong and Petit, the product of the atomic weight and the specific heat of solid elements is a constant number. Although certain of the elements, such as carbon, silicon, and boron, have not fitted in well with the generalisation, it has gained fairly wide acceptance. A new light has been thrown on the matter by Sir James Dewar, who described his research at a meeting of the Royal Society on June 19. In view of the fact that the values obtained for specific heats vary with the temperature at which the determinations are made, he has carried out a large number of such determinations by means of his liquid hydrogen calorimeter at a temperature of 50° above the absolute zero, or more than 200° below the freezing-point of water, the determinations of Dulong and Petit having been made at ordinary temperatures. The values obtained under these new conditions when multiplied by the atomic weights show no sign of an approach to a constant figure, but when plotted on a diagram exhibit a periodic variation which closely follows the atomic volume curve of Lothar Meyer.

DIALOGUE IN KENSAL RISE.—Customer: "Powder for a boy two years old." Chemist: "The best thing for that age is emulsion of magnesia." Customer: "That is too cooling for him. I had some last week, and it gave him a cold."

Historical Medical Museum.

THERE was opened on June 24 at 54A Wigmore Street, London, W., the Historical Medical Museum, organised by Mr. Henry S. Wellcome, of Messrs. Burroughs Wellcome & Co., which is officially connected with the section of the History of Medicine of the International Congress of Medicine. Dr. Norman Moore, F.R.C.P., President of the History of Medicine Section of the Congress, performed the opening ceremony at half-past two, when he spoke from the gallery of the large hall in the Museum. He was supported on the right by Sir Thomas Barlow, Bart., President of the Royal College of Physicians, Sir Rickman J. Godlee, Bart., President of the Royal College of Surgeons, and the Master of the Society of Apothecaries. On his left were Mr. Wellcome, Sir Frederick Treves, Bart., and Sir Francis Champneys, Bart. Among others present were Lord Aberconway and his sister, Lady Dorothy Stanley, the Right Hon. Sir Henry E. Roscoe, Sir Ronald Ross, Dr. D'Arcy Power, Dr. F. B. Power, Mr. J. Y. W. McAlister, and Mr. E. M. Holmes. Dr. Moore delivered an interesting address on museums, in the course of which he stated that the first considerable museum in England was that of John Tradescant founded at Lambeth in the seventeenth century, which was acquired by Elias Ashmole, and is now at Oxford. Another was formed in London by James Petiver, who was apprenticed to Felkin, the Apothecary of St. Bart's, and himself became Apothecary of the Charterhouse, dying in 1718. This museum, with the library attached to it (libraries were appendages to museums, explaining them), was acquired by Sir Hans Sloane, and has developed into the British Museum, as to which Dr. Moore spoke in high commendation. He referred to the Calceolari collection, then spoke of special museums, such as Dr. William Hunter's in Glasgow, Dr. Edward Brown's, and John Hunter's, now that of the Royal College of Surgeons in Lincoln's Inn Fields. As to the Historical Medical Museum, Dr. Moore said that it is fresh in every sense of the term, never having been attempted before in any part of the world. He spoke of its arrangement and the more notable exhibits in it, and, in concluding, said: "It is to Britishers a subject of pride that all their great collections have been formed by private individuals, and not as a result of money given by the State. This Museum is no exception, for it is entirely due to Mr. Wellcome," and he considered that it will be of great importance in the study of the history of medicine. He then declared it open.

Sir Thomas Barlow moved a vote of thanks to Dr. Moore for his "most interesting and fascinating address," adding to the names of medical men mentioned by him that of Sir Jonathan Hutchinson, whose work in this connection he highly praised. Sir Thomas (who closely resembles the late Mr. John Williams) then spoke of the getting together of this Museum, remarking that during the years that Mr. Wellcome had been getting the collection together his conscience may occasionally have been troubled about the money he was spending on what to some might be regarded as an unjustifiable luxury, but he was sure that the interest and pleasure which he is now giving to many people make the luxury justifiable. Sir Frederick Treves seconded the vote of thanks, remarking that it would be hard to exaggerate the service that this Museum would be to medicine. Dr. Moore having briefly acknowledged the vote, Sir Rickman Godlee, Bart., moved a vote of thanks to Mr. Wellcome, which was seconded by Sir



MR. WELLCOME.

Francis Champneys. Mr. Wellcome, in replying, expressed his gratitude for the general expression of commendation, and mentioned that many eminent men throughout the world had assisted him in this matter by the loan and presentation of specimens, as also had some Institutions. He specially thanked Mr. C. J. S. Thompson, Dr. L. W. Sambon, and other members of his staff who had arranged the exhibition. The official connection with the International Congress of Medicine had greatly encouraged him, he said, adding that he regards this Museum as at its very beginning, for it is his intention to form in London a Bureau of Scientific Research, with Dr. Andrew Balfour, C.M.G., as its head, and the Museum will be associated with the Bureau. The company then inspected the Museum, of which we append a description.

THE EXHIBITS AND HOW TO SEE THEM.

Entering from Wigmore Street, the visitor finds himself in the Hall of Primitive Medicine, where the exhibits are chiefly of ethnological importance. There is, however, in this section a modern side in connection with recent work on the transmission of disease by protozoal agents. Dr. Sambon has arranged in an instructive manner the results of his work on pellagra, and as this disease has now been identified in England and is a fruitful cause of insanity, the importance of the exhibit cannot be underestimated. Pellagra is transmitted to man by the Simulian fly, the larvæ of which have been found in running streams at Lymington and in the New Forest. Those interested in this subject should not miss the pictures illustrating the history of infectious diseases.

Passing through a corridor the walls of which are covered with paintings—there is also a weird statue of "The Witch"—one arrives at the largest room of the exhibition, the Hall of Statuary. It receives its name from the collection of statues of gods of medicine of all times, which are its prominent feature. The pictures on the walls also, in the main, deal with the same subject, and pharmacists will be interested in the pictures of St. Cosmas, St. Damian, and other patron saints of pharmacy. Among the oil-paintings also there are such subjects as "Discovery of Quinine by Pelletier and Caven-

ergotism, that disease being characterised by St. Anthony's fire or erysipelas, is a series of specimens showing the development of ergot of rye. In the centre of the room is an extraordinary collection of Roman votive offerings, many of great pathological interest. Other cases under the galleries are devoted to ancient surgical instruments, many being arranged to show clearly how they have been evolved from original types. Pharmacists should note particularly the specimens showing the evolution of the modern tooth-brush and dentures. In one corner is a case containing historical relics of great interest, such as the medicine-chests formerly belonging to Dr. Edward Jenner, Dr. Livingstone, and Lord Nelson. The gallery of this hall has around it a collection of water-colour enlargements of miniatures from early manuscripts on medicine, pharmacy, and botany from the fifth to the seventeenth century. There are, for example, plenty of illustrations of the mandrake legend, and here and there glimpses of early pharmacies, laboratories, and pharmaceutical operations. The cases contain chiefly charms and talismans, autograph letters, collections of spectacles, pill-dividers, and electrical and optical instruments. Adjoining the main hall are the picture gallery and gallery of ancient manuscripts, books, diplomas, and engravings. In alcoves are arranged relics of Sir James Y. Simpson, Dr. Edward Jenner, William Harvey, and Henry Hill Hickman (an early experimenter with nitrous oxide), and collections of rings, gems, charms, coins, historical surgical instruments, miniatures, anatomical models, pocket medicine-cases, and relics relating to healing by Royal touch. The relics of Jenner are particularly numerous, and include his favourite armchair in which he died. The pictures relate in many cases to alchemical laboratories and apothecaries' shops.

The special section devoted to Pharmacy is in the basement, and should on no account be missed. Here are over seven hundred mortars from the prehistoric stone period to splendid specimens of bronze mortars, hundreds of pharmacy pots, medicine-chests, measures, weighing instruments, old Pharmacopœias, prescription and recipe books, early glassware, and posset pots. Also reproductions of a London pharmacy of the eighteenth and seventeenth centuries, an Italian pharmacy of the six-

teenth century, a barber-surgeon's shop of the same date, a laboratory containing models of early chemical apparatus, and a Roman surgery. The particular interest in the eighteenth-century pharmacy is that the original shop-front is used of Bell's historic pharmacy which stood in Oxford Street, while the laboratory fittings are from Mr. Warren's old pharmacy in Covent Garden. There has also been fitted up a little chapel of votive tablets, chiefly from the church of Santa Maria dei Bagni, Deruta, Perugia, a reproduction of Liebig's laboratory at Giessen, and old hospital wards. The cases contain artificial limbs, trusses, bed-pans, feeding-bottles, enemas, breast-exhausters, cupping instruments, shaving-dishes, and food-warmers. There are also several parturition chairs, one which was believed to possess miraculous powers having been used in about 2,000 cases of childbirth. In a corridor on this floor is a collection of instruments used for restraining the insane, lent by the Metropolitan Asylums Board, and also some horrible instruments of torture. Near by is a case of curious specimens of drugs lent by the Port of London Authority, and

a large collection of curious materia medica from Persia, India, Tibet, and China. There are pictures everywhere, and in another corridor there are some early photographs and x-ray pictures.



Shop (reconstructed) of John Smith, Apothecaire, at "Ye Sign of ye Wilde Man" in ye Old Baile, London, 1662. (Copyright of the Historical Medical Museum.)

tu," "Dioscorides, the Greek Father of Pharmacy," "Rhazes, the Arabian Alchemist," and "Paracelsus at Basle University." In connection with a picture of a pilgrimage to St. Anthony's Abbey at Sologne for

CHEMICAL SOCIETY.

A MEETING was held in Burlington House on Thursday, June 19, at 8.30 p.m., the President (Professor W. H. Perkin, F.R.S.) in the chair. After the minutes of the previous meeting had been read and adopted, the President announced that in future the papers to be read at the meetings would be advertised in the "Morning Post" on the Wednesday preceding the meeting. The first paper was by Messrs. E. C. C. Baly and F. O. Rice, on

ABSORPTION SPECTRA AND CHEMICAL REACTIVITY (PART III.).

In this the authors extended their theory that every atom is surrounded by a field of force, and when two atoms come together there must be a condensation between these fields of force whereby a system is formed which may or may not be completely closed. The reactivity of the substance is a function of openness of the system forming it. Before a body can react the system must be ruptured, and on this account it must be able to absorb light, so the change in the absorption spectra becomes an indication of the power of the substance to react chemically. One evidence of this is in the interaction of an acid with a base. According to the authors direct combination is preceded by a rupturing or opening of the system, and is indicated by a change in colour. This is then succeeded by chemical change. There are several phases between the closed and the open conditions of any system, and the authors hope to be able to obtain evidence of these various stages. At present it is only possible to recognise the extremes of the chain. To support their contention they bring forward the behaviour of trinitrobenzene. If this body be dissolved in an alkali or piperidine, two absorption bands, α and γ , appear. If dimethylaniline be used as a solvent, two bands, Y and L, appear. As an explanation of this, they state that the combination of the trinitrobenzene with the alkali is strong enough to resist the rupturing action of the solvent on the force system.

A paper was next read by Professor A. W. Crossley, in which he, in conjunction with Miss D. J. Bartlett, has proved the constitution of two derivatives of *o*-xylene by synthetical methods.

SYNTHESIS OF ELEMENTS.

Professor N. Collie and Mr. H. S. Patterson contributed an exceedingly interesting paper on the presence of neon and helium in the products resulting from subjecting hydrogen to an electrical discharge. When hydrogen is sparked, neon and helium make their appearance in the tube. It has been found, however, that it is not necessary to use electrodes, since if a tube containing hydrogen be surrounded by a coil through which is passed a strong oscillatory discharge, both helium and neon are to be found. A very large number of experiments were made, using tubes of various forms, and under all conditions helium and neon were obtained. In all the experiments great care was taken to have nothing but hydrogen in the tube. When double tubes were used the larger quantity of the helium was found in the outer tube surrounding the one in which the hydrogen was being acted upon. Further, besides these two gases a deposit was obtained which on explosion with oxygen gave carbon dioxide. Among the gases obtained was one which gave the spectrum of carbon, and which on sparking over mercury disappeared entirely. If a vacuum tube containing hydrogen and fitted with copper electrodes be subjected to a strong current the copper is splashed over the tube, and this metal on solution in aqua regia yields a precipitate with barium chloride, which, as far as the authors can tell at present, is barium sulphate. A similar effect is obtained by using palladium magnesium or platinum as electrodes. Where the sulphur comes from the authors cannot say. They summarise their results in the following way. It is not necessary to employ electrodes in treating the hydrogen, and helium and neon always result. The hydrogen disappears in a most remarkable manner. A gas

is obtained which gives a carbon spectrum, and disappears on sparking over mercury. A body, apparently sulphur, is formed when the metals forming the electrodes are splashed on the glass of the tube. There is slight evidence of other substances as well.

In a note which the Society's officers have received from Dr. Masson he describes how he also has obtained neon by subjecting hydrogen to the same treatment.

OTHER COMMUNICATIONS.

Two papers were read by Dr. T. M. Lowry on the rotary-dispersive power of organic compounds.

Mr. C. Dorée extended his contributions on the cellulose chemistry by reading a paper on cellulose peroxide. This he obtained by the action of ozone. He finds that the more nearly anhydrous the conditions are the less peroxide is obtained. The compound is destroyed by heat, and its activity passes away on keeping exposed to air. If it be treated with water, hydrogen peroxide is obtained. The cellulose peroxide shows a strong photographic activity, and recalls that of the native woods. This photographic activity can be imitated by soaking the fibres in hydrogen peroxide and exposing a plate to their action.

Mr. P. W. Robertson discussed the isomerism of *p*-azophenol and came to the conclusion that it was explainable by the stereochemical theory of nitrogen.

The President communicated observations on the constitution of *d*-sylvestrene.

A ballot for the election of Fellows was held during the evening, and all those whose names were down were duly elected. They included Mr. P. B. Phillips, Ph.C., London Hospital; Mr. W. Gilbert Saunders, Ph.C., A.I.C., 34 Hanover Street, Liverpool; and Mr. Montagu G. Smith, dispenser and x-ray operator, Lewisham Infirmary.

Chemical Industry Club.

ON MONDAY EVENING, June 23, this Club gave an informal dinner at the Criterion Restaurant, Piccadilly, London, to Professor Marston T. Bogert, LL.D., of Columbia University, New York. Dr. Hodgkinson (Chairman of the London Section of the Society) presided; Professor Bogert sat on his right, also Sir William Crookes, O.M., Dr. Rudolf Messel, Mr. A. Gordon Salamon, Dr. Maximilian Koch (New York), Dr. Lewkowitch, Mr. F. Hemingway (New York), Mr. R. C. Woodcock, and Mr. W. J. Leonard. On the left were Sir William Ramsay, K.C.B., Mr. Walter F. Reid, Mr. Bedford McNeil, Dr. S. A. Goldschmidt, Dr. Clowes, Mr. J. C. Unney (President of the British Pharmaceutical Conference), Mr. Edmund White (President of the Pharmaceutical Society), Mr. E. Grant Hooper, Mr. W. F. Burgess, Dr. F. B. Power, and Mr. Fuerst. The Chairmen of the spur tables were Mr. T. D. Morson (Secretary of the Club), Mr. T. Tyrer, Dr. M. O. Forster, and Mr. R. W. Greff. The contingent of diners representing pharmaceutical chemistry was a strong, if not the strongest, section of the meeting, and included Mr. R. R. Bennett, Mr. Richard Blenkinsopp, Mr. Rudolf Demuth, Mr. H. Finnemore, Mr. Alan Francis, Mr. G. B. Francis, Mr. Rawson P. Francis, Professor Greenish, Mr. MacEwan, Mr. E. F. Harrison, Mr. L. J. Morson, Mr. T. P. Morson, Mr. N. H. Martin, Mr. E. J. Millard, Dr. Passmore, and Mr. Smith (Greff's). After dinner and the toasts of "The King," "The President of the United States," and "The Prince of Wales" (whose health on the occasion of his birthday was proposed by the Chairman in a few charming sentences), the toast of "The Guests" was drunk on the invitation of the Chairman, and Professor Bogert replied. He delighted the company with the humour of his speech, and as a *raconteur* he proved to be a discovery to London. He told story after story, and had the company laughing heartily, and not a single one of the tales was dragged in, each one being *à propos* of some weighty remark that the Professor was making—even the tale of the man who found, while crossing the Atlantic, that nothing would stay on his stomach but his hand, was an apt illustration of wise remarks that preceded it. This was all the speaking until an excellent musical programme by Miss Doris Clayton (songs), Miss Christine Hawkes (concertina), and Mr. Selwyn Driver (musical sketches) had been gone through, when, before "God Save the King" was sung, Mr. Tyrer expressed the thanks of the Club to the Secretary for his successful arrangements, and Mr. Morson's health was drunk. He briefly replied.

ASSOCIATION AFFAIRS.

Cambridge.—A meeting of the Junior Pharmaceutical Association was held at Croydon Chambers, Regent Street, on June 18, to report on the evening classes and to make arrangements for a continuance next winter. Mr. Eric Titterton, after considerable trouble last year, succeeded in convincing the County Council that there is some justification in asking that classes in chemistry be provided for pharmaceutical students, providing a sufficient number of students could be persuaded to attend. Fifty per cent. of the members of the Association attended the classes provided, in which the work was based entirely on the syllabus for the Minor examination.

Edinburgh.—Three botanical excursions of the Edinburgh Chemists', Assistants', and Apprentices' Association have been held this month—all excellent.

Exeter.—The annual meeting of the local Association of Pharmacists was held on the evening of June 19. Mr. T. C. Milton presided, and proposed the election of Mr. Eric Lemmon, Ph.C., as President. Mr. Rowsell seconded, and the motion was unanimously agreed to, Mr. Lemmon then taking the chair. The Hon. Secretary (Mr. F. W. Vinden) then read the annual report, which was adopted, as also was the financial statement, submitted by Mr. J. Harris. Mr. Vinden and Mr. Harris were re-elected Secretary and Treasurer respectively, and on the motion of Mr. Rowsell Mr. Milton was cordially thanked for his services as President. A motion congratulating Mr. W. J. U. Woolcock on his election to succeed Mr. Bremridge was agreed to, as also was one thanking Mr. Rowsell for his services in connection with Insurance matters. The Secretary intimated that he had received replies from fourteen manufacturers regarding the protection of their proprietaries, and he commented upon the discourtesy of the others. The meeting decided to discontinue the sale of two of the articles for a period of six months, in order to see what effect that would have upon the manufacturers' attitude, and the matter was left in the hands of the President (Mr. Milton) and Mr. Vinden, to report at the next meeting. After discussing the Drug Committee's report, Mr. Rowsell was asked to watch the interests of qualified pharmacists in respect to it.

Leicester.—The annual meeting of the Leicester and Leicestershire Chemists' Association was held at Leicester on June 4, Mr. G. Hampton (President) in the chair. There was a good attendance of members. The annual report presented by Mr. C. J. Avery (Hon. Secretary) stated that the membership is ninety-four, which is a record in the history of the Association. The Treasurer's report showed a balance in hand. The rules of the Association were amended to provide that the Divisional Secretaries of the Pharmaceutical Society be *ex-officio* members of the Council, and that in the future the election of the Council be by ballot. The election of officers then took place as follows: *President*, Mr. W. T. Hind; *Vice-President*, Mr. K. Nixon (Hinckley); *Treasurer*, Mr. F. Blockley; *Auditor*, Mr. H. Clear; and *Secretary*, Mr. C. J. Avery. The following were elected by ballot to serve on the Council: Messrs. Fry, Hearnshaw, Lewis, Marfitt, Palmer, Stiles, Ward, Young, with the Divisional Secretaries of the Pharmaceutical Society. Messrs. S. F. Burford, F.C.S., and Lewis Ough, F.C.S., were appointed to represent the Association at the British Pharmaceutical Conference meeting in London.

North-East Lancashire.—At a meeting of the Chemists' Association held at Blackburn last week, Mr. W. H. Grimshaw presiding, arrangements were completed for the new quarter. It was agreed on this occasion to arrange for three chemists to open on Thursday afternoons and on Sundays, in order to cover the whole town, each week, in place of two as hitherto.

Torquay.—The annual meeting of the Torquay Pharmacists' Association was held at the Northcote Hall, Torquay, on June 11. Mr. J. Taylor, J.P. (President), was in the chair, and there were present five members and Mr. A. J. Ventham (Hon. Secretary). A resolution was passed of appreciation of the services of Mr. R. Bremridge, and Mr. W. J. Uglov Woolcock was congratulated upon his appointment as Secretary and Registrar. Mr. Horatio Humphry was congratulated upon his appointment to the Commission of the Peace for the borough of Dartmouth. The Treasurer's balance-sheet was received and adopted. The election of officers then took place as follows: Mr. Taylor re-elected *President*; Mr. F. Sarson was elected *Vice-President*; Mr. T. Dunsford was re-elected *Treasurer* and Mr. Ventham *Hon. Secretary*. The *Executive Committee* was appointed as follows: Mr. J. P. Swaffin (Brixham),

Mr. G. Hellens (Totnes), and Mr. N. V. Stow (Newton Abbot). The meeting considered the question of stock mixtures for submission to the Medical Committee.

Women Pharmacists.—The annual business-meeting of the Association of Women Pharmacists was held on June 19 at Gordon Hall, Gordon Square, London, W.C. Miss Wardle took the chair, and Miss Renouf read the reports of the Treasurer, Secretary, and Employment Secretary, which were approved. The result of the election of six members of committee was announced as follows: Miss Andrews, Miss Bedell, Miss Braithwaite, Miss Buchanan, Miss Davidson, and Miss Gilliat.

Workington.—A meeting of the Workington Chemists' and Druggists' Association was held at Workington on June 13. Mr. W. C. Laurie (President) was in the chair, and there were also present five members and Mr. C. E. Holmes (Hon. Secretary). It was agreed to forward one and a-half guinea as a subscription to the Cumberland and Westmorland Association. After discussion it was decided to approach the doctors in the town with a view to three pharmacies only being opened on Sundays during the summer holidays.

SUMMER OUTINGS.

Cheltenham.—The annual outing of the Cheltenham, Gloucester and District Pharmacists' Association was held on June 19, when Berkeley Castle was visited. The journey was made by motor char-à-banc from Cheltenham, calling at Gloucester on the outward journey, and Stroud and Painswick on the return. Having visited the castle and inspected the summer house of Dr. Jenner, a party of thirty had tea at the White Hart, Berkeley.

Cricket.—In the Wholesale Druggists' Cricket Championship a match was played at Herne Hill on June 21 between Stevenson & Howell and The British Drug Houses, the former scoring 64 and the latter 125. For the losers Lightfoot made 24 runs, White 13, and Collins 11. Batting for the winners, Oxon made 23 runs, Chinnock 19, and James 18. For the latter team C. Parker bowled four wickets for 9 runs and Taylor three for 12.

An Anniversary Outing.—On June 21 the employés of Messrs. Francis Newbery & Sons, Ltd., celebrated the twenty-fifth anniversary of the managing director's (Mr. Francis R. Le Blanc Newbery) association with the business. At Mr. Newbery's invitation a most enjoyable holiday was spent at Eastcote, Pinner. The feature during the earlier part of the day was a cricket match between the "Counting House" and "The Warehouse," the latter proving victorious after a keenly contested game. Inter-departmental races were also organised. Later followed a substantial repast, followed by an entertainment. During the evening Mr. F. R. L. Newbery, in response to the toast of his health, alluded to the improvements and advances made since he had been connected with the business. He also gave a short sketch of his recent visit to America. Another speech of note was that of Mr. E. Pickering, the secretary of the company, which was also enthusiastically received. The company was much gratified by the presence of Mr. Arthur Le Blanc Newbery, who, despite his great age, had travelled a considerable distance to be present. Shortly after ten o'clock the return was made to town, all expressing much pleasure at having spent a most enjoyable day.

A Trip to Brighton.—Howards & Sons, Ltd., had their annual excursion on June 21, when all the employés from Ilford and Stratford were conveyed by special train to Brighton. The train left Stratford at 6.20 a.m. and returned from Brighton at 8.35 p.m., and as the day was gloriously fine there is no doubt that the excursionists, numbering over six hundred, had a most enjoyable outing. At the dinner, held at the historic Royal Pavilion, the chair was taken by Mr. Bernard F. Howard, who in the course of his reply to the toast of "Prosperity to the Firm," proposed by Mr. W. H. Murray, who has been in the company's service for fifty-five years, said that by the end of the year he hoped the offices and warehouses which are now being built at Ilford will be ready for occupation. The company some years ago bought over thirty-three acres of land at Ilford, and since then have been steadily building the various factory departments and removing from Stratford. The increasing output has been successfully dealt with, and the difficulty of removing and erecting large quantities of machinery and plant has been accomplished with the minimum of inconvenience to their customers all over the world. The Chairman took the opportunity, on behalf of the directors, of thanking the staff and all concerned for their ready and continued assistance during a long and trying period.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., June 26.

BUSINESS conditions have not appreciably altered for the better in the produce markets, but the tone is perhaps less depressed than last week. As regards American trade, those in a position to judge do not look for much improvement until the tariff is out of the way and the currency put on a sound basis. Market changes have been of small significance in the interval; they include an all-round advance in Norwegian cod-liver oil. Citric acid is exceedingly scarce and firmer, and higher prices are asked for Japanese peppermint oil on spot. Menthol is steady. Opium is tending firmer for shipment, and a fair quantity of Persian has been sold on spot. Canary-seed is in better demand and firmer; coriander is dearer. Among oils, sweet almond, clove, and English castor tend easier. Anise is very scarce on spot. Lemon is less excited, but it is doubted in several quarters as to whether prices have yet reached the top, although at the moment the Sicilian market is the turn easier. Bergamot and orange are unchanged. In chemicals carbolic-acid crystals, arsenic, and copper sulphate are easier. The principal changes, including those recorded in the drug-auctions, are as follows:

Higher	Firmer	Easier	Lower
Cod-liver oil	Canary-seed	Almond oil	Aloes (Cape)
Coriander seed	Citric acid	(B.P.)	Cardamoms
Honey (Jam.)	Coca leaves	Arsenic	Cassia oil
Lime oil (W.I.)	Oxalic acid	Carbolic acid	(auction)
(auction)	Peppermint	(cr.)	Cloves
Tragacanth	oil (Jap.)	Castor oil	Copper
(fine)	Wax, bees'	Clove oil	sulphate
	(Jam.)		Ipecac. (Rio)
			Sarsaparilla
			(grey & native)

Cablegram.

NEW YORK, June 25.—Business in drugs remains dull. Opium is a further 5c. per lb. lower at \$6.15 for drug-gists'. Peppermint oil in tins is quiet at \$2.80. Spearmint oil has been reduced to \$4.60 per lb. Hydrastis is easier at \$3.90, and senega remains firm at 80c. Podophyllum-root is easier at 6½c., and cascara sagrada is firmer at 7½c. per lb.

London Markets.

ALMOND OIL.—The arrivals of raw material on a freer scale enable the pressers to reduce the price of English oil by 1d. per lb. to 2s. 6d. for sweet (B.P.).

AMMONIA SULPHATE is unaltered. Grey 25 per cent. London prompt delivery, 12l. 5s.; Hull prompt, 12l. 16s. 3d.; Leith prompt, 12l. 18s. 9d. to 13l.; and Liverpool prompt, 12l. 17s. 6d.

ANISE OIL, STAR.—Further business has been done on spot at 7s. per lb. for "Red Ship" brand, but at the close a sale is reported at 7s. 3d.; for delivery next month, business has been done at 7s., and June-July shipment at 6s. 2d. c.i.f.

ANISEED is offering at 23s. 6d. to 25s. per cwt. for ordinary to fair Russian on the spot, but there is no business reported.

ARSENIC continues easy at from 16l. to 17l. 10s. per ton for best white English powder according to quantity. The less-esteemed Australian is quoted at from 14l. 10s. to 15l.

ASAFETIDA.—The exports from Bushire (Persian Gulf) during 1911-12 amounted to 30 tons, as compared with 76 tons in 1910-11 and 68 tons in 1909-10, the values being respectively 3,356l., 8,341l., and 6,644l. Of the above 30 tons, 26 were sent to India and 4 direct to the United Kingdom.

BERGAMOT OIL remains unaltered, new crop for January-April shipment offering at 17s. 10d. per lb. c.i.f. and prompt shipment at 20s. 9d. to 22s. 6d. c.i.f. for 37 to 39 per cent. esters.

A Palermo advice dated June 14 states that consumers show a lack of interest, and with the heavy supply available a few orders which have come to hand have been executed at slightly easier rates.

CAJUPUT OIL.—The exports from Macassar during 1912 were 2,579 crates, as compared with 2,007 crates in 1911 and 1,536 crates in 1910. The spot price of fair Singapore is 2s. 6d. per bottle.

CANARY-SEED is in better request, and the market is in consequence much firmer. Ordinary Morocco has been sold at 89s., cleaned River Plate at 87s. 6d. to 90s., and good Morocco at 95s. per qr., but higher prices are now asked. Turkish for shipment has been done at 80s. to 82s. c.i.f. terms, but quotations are now given at 86s. to 88s.

CARAWAY-SEED sells slowly at 25s. to 26s. per cwt. for fair to good Dutch on the spot.

CARBOLIC ACID.—Crude is slightly easier, 60 per cent. offering at from 1s. 3½d. to 1s. 4½d. per gal., either East or West Coast.

CASTOR OIL.—English make is 10s. per ton easier at 27l. 10s. for first pressing for prompt delivery, July-December 27l. 5s., and January-June (1914) 27l. 15s., usual terms, delivered free on wharf London. Pharmaceutical quality is 50s. per ton over the price of first pressing, and oil in tins and cases 50s. over the respective price in barrels. Belgian of first pressing is 28l. 15s. for prompt and 1l. less for July-December, ex wharf London. Finest French medicinal is quoted at 35l. in barrels and 38l. in cases, ex wharf London. In Liverpool good seconds Calcutta is firm at 3½d. per lb. for spot and 3½d. for arrival.

CINCHONA.—The exports from British India during the twelve months ended March were as follows:

		1910-11	1911-12	1912-13
Lb.	...	371,280	410,032	659,285
Rs.	...	77,735	78,550	1,36,673

CITRIC ACID.—Second-hands are now asking 1s. 9d. per lb.; makers are practically off the market.

CLOVE OIL.—The easier rates for cloves enables English distillers to reduce their price to 5s. 6d. to 5s. 8d. per lb., as to quantity.

CLOVES.—Privately the market is easier, with sellers of Zanzibar at 8½d. per lb. spot for fair. To arrive, sellers of August-October quote 6½d., September-November 6¾d., and October-December 6d. c.i.f. For June-August delivery there are sellers at 8d. At auction 32 bales Zanzibar were bought in at from 8½d. to 8¾d.

COCONUT OIL is firm at 54s. for Cochon on spot, and 47s. 6d. for Ceylon.

COD-LIVER OIL.—The Norwegian market continues to show a rising tendency, several agents quoting 98s. c.i.f. for finest 1913 oil without engagement, and others 100s. to 103s. c.i.f.

According to cabled statistics received from Norway, the catch and output of cod-liver oil up to June 21 was as follows:

		Finnmarken.		
		Catch of	Yield of	Livers for
		Cod	c.l.o.	Raw Oils
			(hect.)	(hect.)
1913	...	33,666,000	21,831	5,524
1912	...	36,701,000	29,000	26,589

Whole of Norway.

1913	...	...	74,800,000	47,363	11,515
1912	...	...	99,100,000	76,202	34,000

Our Bergen correspondent writes on June 23 that the Finmarken cod-fishing is now closing; 5,000 fishermen have left Finmarken this week, and the remaining 8,000 will probably leave it before the end of June. The official report gives the following total results up to June 21:

	...	1911	1912	1913
Catch of cod (millions)	...	64.4	99.2	74.8
Yield of cod-liver oil (hect.)	...	43,303	76,200	47,350
Livers for "raw" oils (hect.)	...	12,700	34,000	11,500

The market is firmer, and holders have raised their price to 98s. 6d. c.i.f. for prime new non-congealing Lofoten oil.

COPPER SULPHATE is easier, the usual Liverpool brands offering at 21l. 10s. per ton for prompt delivery.

CORIANDER-SEED is dearer; wormy Morocco is quoted 14s. and sound 16s. to 16s. 6d. per cwt.

CUMIN-SEED is firm, with a small business passing at 22s. 6d. to 25s. per cwt. for common to good Morocco. Malta is quoted 30s. per cwt.

DILL-SEED is offering at 19s. 3d. per cwt. c.i.f. terms for shipment from India.

FENUGREEK-SEED is steady at 11s. per cwt. for good Morocco on the spot.

GALLS.—Persian are tending firmer, blue on the spot offering at 45s., and to arrive at 44s. c.i.f.

GINGER.—At the lower prices ruling the sales in Liverpool include 65 tons African at 18s. 6d. to 18s. per cwt., the market closing steady. At the London auction 176 bags fair washed Cochin were bought in at 29s.

LEMON OIL.—Prices remain substantially unaltered, the spot business applying to retail lots at between 19s. and 20s. for genuine, and for prompt shipment old crop is quoted at from 18s. 4d. to 19s. c.i.f. New crop varies from 11s. 6d. to 12s. 9d. c.i.f. according to shipper. It is said that prices have not yet reached the top, and that several large buyers have not covered their requirements. As the result of the scarcity of genuine lemon oil there is an increasing inquiry for artificial products. In the drug-auction five cases of pure, according to Umney's analysis, were bought in at 20s., no bid being made.

A Palermo advice dated June 14 states that it is difficult to conceive a more excited condition of the market than has been ruling during the week. It seems as if operators imagine there is no limit to the price fluctuations, the figures jumping 6d. to 1s. per lb. at a time, whereas under normal conditions the advance was usually ½d. to 1d. With fair inquiries and orders, consumers who were in need had to pay the higher figures ruling, but this genuine trade was still further complicated by speculative purchases and sales on the part of those who, having sold part of their stock, regretted it, and bought again at higher figures. It is naturally impossible to draw conclusions from such confusion. It can be definitely said that the available supply is really small, and this gives a firm foundation to the excitement as long as there are requirements to cover, either in Sicily or abroad.

A Palermo advice dated June 21 states that last week's excitement has given way to a relaxed feeling. The first part of the week was marked by a total absence of business; then some inquiries came in, especially from England, but not for large quantities, and several parcels were bought for the English market at the full parity of 18s. 6d. c.i.f. For new crop the market has been quite nominal during the greater part of the week, buyers feeling reluctant to pay the prices; at the close, however, a large parcel was sold at the parity of 12s. 6d. c.i.f.

LINSEED.—Good Dutch is quoted 50s. and Morocco 55s. per qr., being unchanged.

MENTHOL.—Quiet, with Kobayashi offering on spot at 21s. To arrive, October-November shipment of Kobayashi is quoted 18s. 6d. per lb. c.i.f. The *Hirano Maru*, from Japan, has brought 25 cases menthol and 50 cases peppermint oil in transit.

OPIMUM.—Quotations remain practically as last week, but the Turkish markets are inclined to harden. Sellers quote from 15s. to 15s. 6d. per lb. c.i.f. for the usual 11 per cent. quality, and on the spot the prices are from 18s. to 18s. 6d. For July-August shipment there are several cheap speculative offers about, but when attempts are

made to do business at the figures quoted the quotations prove unreliable, the seller asking more money; 14s. 6d. c.i.f. appears to be a genuine quotation for July-August shipment, and orders cabled out at 14s. have been refused. At the close it is reported that America is again in the market, and that prices are advancing. The market for Persian opium has stiffened considerably, and a fair business has been done for export at up to 21s. per lb. for over 11 per cent. Sellers are not now so wishful to realise the remainder of their stocks on the spot.

A Smyrna correspondent writes on June 13 that, owing to heavy purchases for American prompt shipment account and to torrential rains having somewhat reduced the estimate of the lowland crop, our market this week advanced fully 6d. per lb. The sales in all amount to 90 cases at from 14s. to 17s. 3d. as to quality. Several buyers came forward for new crop July-August delivery, but hitherto only one or two sellers are offering 11 per cent. new Karahissar at 140 ptrs., which is equal to 15s. per lb. As labour is lacking and stands at a high premium, we understand that much of the poppy in the interior is allowed to go unincised; therefore we shall have in this a reduction of the yield, unless dealers are prepared to pay high values to cover this extra labour charge. The lowest figures possible anticipated are from 13s. to 15s. 6d. as to quality, so it is judicious not to give much credence to the speculative low offers which shippers from primary markets are making, for by expecting very low prices buyers will miss the market again this year. The arrivals are 36 cases, against 41 at same date last year.—A Constantinople report dated June 15 advises sales for the week amounting to 12 cases inferior druggists' at from 180 ptrs. to 215 ptrs. per oke, and 13 cases "softs" at from 260 ptrs. to 265 ptrs. On the news from the interior that high prices are being paid for new crop the market is hardening.

The British Consul at Bushire, in his annual report for the Persian fiscal year March 21, 1911, to March 20, 1912, writes that the opium-crop of 1911 in Fars was very good, and as that of the Isfahan province had suffered from the cold of the winter season 1910-11 and the position of Turkish opium was not very strong, a keen demand was rapidly created, and prices in Shiraz and Bushire reached figures hitherto unheard of. In addition, the gradual closing of the market in Hong-Kong and China to the free sale of Persian opium has enormously enhanced the value of the drug in Persia. However bad the insecurity in the environs of Fars, once the opium has been gathered, it is certain to reach the market. In the autumn of 1911, 300t. and 400t. were being paid by owners of opium in the villages to armed escorts, composed of Arab tribesmen, to take relatively small quantities into Shiraz. The total quantity exported in 1911-12 from Bushire was 166 tons, valued at 246,036t., as compared with 37 tons and 53,732t. in 1910-11. Of the increased export, 45 tons, valued at 119,060t., went to China and 58 tons, valued at 119,138t., to London. Now that merchants are having much difficulty with the import into Hong-Kong, various ports of consignment in the Far East are being utilised—e.g. Singapore and Kelung (in Formosa). Rates of freight *via* India, where the weight of the chests according to the Bombay opium laws had to be exactly 140½ lb., were raised at the end of the year and drove shippers into finding roundabout routes *via* Port Said in liners sailing direct from Bushire to Europe. The crop of 1912 was again well favoured, both in Fars and Isfahan, and even more extensive business is anticipated before the end of 1912-13. Prices of opium in Bushire for purchase in Shiraz ruled high, 400 krans (7l. 5s.) per Shiraz man of 7½ lb. being paid in December 1911, 500 krans (9l. 2s.) in January, and 600 krans (10l. 18s.) in February 1912. Prices per chest of 160 cakes ranged in the same period from 7,200 to 8,500 krans (131l. to 154l.).

ORANGE OIL for prompt shipment is quoted from 14s. 2d. to 14s. 10d. c.i.f., with primary advices still reporting a firm market and short supply. A Palermo advice, dated June 21, reports a very strong position, the supply being so small that holders can easily increase the price whenever new inquiries come in; *sweet* without engagement is quoted 14s. 6d. c.i.f. In the London drug-auction a single case of pale West Indian was held at 11s. per lb.

ORANGE-PEEL.—Privately Tripoli strip is selling at 8d. per lb. for fair colour. In auction ten barrels common dull strip were limited at 5d.

ORRIS.—Business has been done in good Florentine sorts at 65s. spot.

PEPPER.—At auction 56 bags Ceylon sold at 5½d. to 5¾d. for good bold heavy, and at 5¾d. to 5½d. for fair to good heavy. Privately the spot demand is quiet, with Singapore offering at 5½d., and for July-August shipment 5d. c.i.f. has been paid, being easier inclined. The spot quotation for fair *white* Singapore is 8½d., and fair Muntok 9½d. Arrival market is slow, the sales including

Muntok for June-July steamer at 9d. c.i.f. d.w.; August-October shipment of Singapore is quoted 8½d. c.i.f.

PEPPERMINT OIL.—The reports as to frosts in Michigan give a firmer tone to the American market, but on this side the stocks in the hands of dealers prevent prices from appreciating; good brands of tin oil can be had at from 11s. 6d. to 11s. 9d., and for the bottled oil 14s. 3d. to 14s. 6d. is quoted. Japanese dementholised is firmer at 6s. spot for Kobayashi, but in one instance the price is said to have been raised to 6s. 6d. Cable advices to hand this week from Japan report very favourable weather for the new crop. It is now expected that the output in Japan proper (Bingo, Bitchu, and Yamagata districts), which was estimated at 400,000 kin, will most likely come up to 500,000 kin. The total crop (including Hokkaido) should therefore be well over 1,000,000 kin.

QUICKSILVER.—Both first- and second-hands remain unaltered at 7l. 10s. and 7l. 2s. per bottle respectively.

The exports during the three months ended March have been as follows:

	1911	1912	1913
From Spain (kilos.)	412,792	623,627	418,517
From Italy (kilos.)	317,500	371,900	229,000
From Austria (kilos.)	170,003	238,100	244,600

QUININE.—There are no developments in this market, and prices are as before—viz., 10d. from second-hands for the usual brands of German sulphate.

At the auction of quinine held by the Amsterdam Quinine-works, 1,417½ kilos. (50,000 oz.) Ed. II. were bought in at fl.17.50 per kilo. The next auction will be held on July 11.

The exports of "quinine, quinine salts and combinations" from Germany during the four months ending April were as follows:

Kilos.	1911	1912	1913
...	68,500	78,500	82,800

SHELLAC is firm, with fair TN Orange offering at 89s. to 90s., fair free AC Garnet at 85s., and GAL 73s. For arrival TN for June-July shipment is quoted 91s. and AC Garnet 84s. c.i.f. Futures are dearer, with a fair business, including August at 88s. 6d. to 90s. to 91s., October 90s. to 92s. 6d., and December 91s. 6d. to 94s. 6d.

TRAGACANTH.—Fine grades continue scarce, consequently business is retail, with single cases selling at 25l. per cwt. for druggists' firsts, of which a few cases are about landing.

TURPENTINE on the spot shows little change on the week, American closing firm at 28s. 1½d. per cwt. and 28s. 3d. for July-August.

London Drug-auctions.

Commercial Sale Rooms.

Mincing Lane, E.C., June 26.

AN exceedingly dull tone prevailed at the auctions of first- and second-hand goods, probably in view of the fact of the end of the half-year. Very few bids were made for Cape aloes, and the business effected showed a decline of about 2s. 6d. to 3s. per cwt. Buchu remains flat, and for Sumatra benzoin there was practically no demand. Cardamoms met with a poor reception at a decline of 2d. to 3d. per lb., seeds being steady. Reboiled dragon's-blood pickings sold at good prices, while there was no demand for gamboge. Honeys of all kinds are scarce and in demand, dearer prices being paid for the better kinds of Jamaica to-day. Matto Grosso ipecacuanha was again lower, and business is difficult to effect. Kola is steady, and for West Indian lime oil very full prices were paid. Rhubarb was entirely neglected, and grey Jamaica sarsaparilla, being in large supply, declined 1d. to 2d. per lb., and for native Jamaica a similar reduction was accepted. Common Tinnevely senna was held above buyers' ideas and practically all bought in. West Indian tamarinds are firm, and turmeric quite neglected. Jamaica beeswax was 2s. 6d. better. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aloes—			Benzoin—		
Cape	68	14	Palembang	5	0
Socotraine (kegs) ..	25	0	Siam	6	0
Zanzibar (cases) ..	22	0	Sumatra	166	3
Ambergris ... (tin) ..	1	0	Buchu	32	0
Asafetida	7	0	Calumba	104	0
Balsam peru	3	0	Cannabis indica ...	14	0
Belladonna-root ...	5	5*	Cardamoms & seed	168	53

	Offered	Sold		Offered	Sold
Cascara sagrada ...	418	0	Myrrh.....	6	0
Cassia fistula	58	0	Nux vomica	55	0
Cassia oil	10	10	Olibanum	35	0
Chamomiles	5	0	Orange oil.....	1	0
Chiretta	8	0	Orange-peel	17	0
Cinnamon oil	7	0	Orris (Mogador) ...	2	0
Coca-leaves	87	14	Papain	10	0
Croton-seed	20	0	Puree	4	0
Cubebs	30	0	Quillaia	50	0
Cuttlefish-bone	111	0	Rhubarb (China)...	38	2
Dragon's-blood	16	5	Sandalwood	38	0
Elaterium ... (box) ..	1	0	Sarsaparilla—		
Elemi	44	0	Grey Jam.....	36	18
Ergot	8	0	Lima-Jam.....	16	0
Eucalyptus oil	23	0	Native Jam.....	20	13
Euphorbium.....	1	1	Senna and pods—		
Gamboge	23	0	Alexandrian.....	13	*3
Guaiaacum	3	3	Tinnevely	506	56
Gum acacia	26	0	Stavesacre	3	0
Honey—			Strophanthus	8	2
Cuban.....	37	37	Tamarinds—		
Hayti	16	7	East Indian.....	68	0
Jamaica	61	51	West Indian	97	9
St. Lucia	30	30	Tonka-beans	10	0
Insect-flowers	1	0	Tragacanth	18	0
Ipecacuanha—			Turmeric	635	0
Cartagena	3	0	Wax (Bees')—		
Matto Grosso	22	6	China	6	0
Minas	5	0	East African	11	11
Jalap	2	0	East Indian	74	0
Kamala	2	0	Jamaica	9	9
Kola	35	22	Morocco	4	0
Lemon oil .. (cs.) ..	5	0	Mozambique	28	0
Lime-juice	23	0	Zanzibar	19	0
Lime oil	7	6			
Liquorice-root.....	63	0			

* Sold privately.

ALOES.—Cape was difficult to sell, there being no bids for the first 33 cases offered; of the remaining 35 cases 14 cases sold at from 45s. to 45s. 6d. for good hard bright firsts, and at 44s. 6d. for good seconds, these prices being from 2s. 6d. to 3s. per cwt. cheaper. The *Kenilworth Castle* has brought 22 packages from Mossel Bay.

AMBERGRIS.—A tin of 12 oz. of black undeveloped in small pieces was bought in, no response being made to a suggestion of 30s. per oz.

BENZOIN was very slow of sale, three cases Sumatra only changing hands at 7l. 15s. per cwt. subject for good country split seconds with part brownish ends. The arrivals comprise 21 cases *via* Havre and 20 cases from Singapore.

BUCHU.—Flat. For slightly yellowish round 5s. 2d. was wanted, fair being obtainable at 5s. 7d. and good green clean at 5s. 10d. per lb. Bronzy oval leaf was limited at from 1s. 10d. to 1s. 11d., and for good green clean longs the limit had been raised to 5s. per lb. The *Kenilworth Castle* has brought 30 packages.

CARDAMOMS were flat and from 2d. to 3d. per lb. lower, seeds being about steady; the following prices were paid: Ceylon-Mysore, extra bold fine pale, 5s. 2d.; good bold long pale, 4s. 5d. to 4s. 9d.; bold and medium long pale, 4s. 2d. to 4s. 3d.; small and medium ditto, 3s. 7d. to 3s. 11d.; very small, 3s. 3d. to 3s. 6d.; fair seed, 4s. 1d. to 4s. 2d.; small and medium greenish Alleppy character (two cases), 3s. 5d. Ceylon-Malabar were bought in at 3s. 9d. for small and medium.

The exports from Ceylon from January 1 to June 2 amounted to 211,731 lb., against 197,246 lb. in 1912 and 324,544 lb. in 1911; the exports to the U.K. during the above period have been 84,912 lb., against 76,800 lb. in 1912; to Germany, 44,909 lb., against 54,982 lb.; to U.S.A., 36,637 lb., against 18,860 lb.; and to India, 15,201 lb., against 27,481 lb.

CASCARA SAGRADA.—A parcel of 418 bags of four-year-old, mostly thick quilly, was limited at 38s. per cwt.

CASSIA OIL.—Ten cases analysing 82 per cent. cinnamic aldehyde (Sage's analysis) sold without reserve at from 3s. 1d. to 3s. 2d. per lb. Privately from 3s. 7d. to 3s. 8d. is quoted for 80 to 85 per cent. on spot.

COCA-LEAVES were firmer, 14 cases fair stout greenish Ceylon-Huanuco character selling at 9½d. per lb.

DRAGON'S-BLOOD.—Pickings from reboiled lump were rather dearer, two cases of fair lump and dull selling at

from 7l. 5s. to 7l. 7s. 6d. per cwt. Two cases of inferior bag-shaped and wet lump sold at 60s., and for a case of dull virgin lump 6l. per cwt. was paid. Privately reboiled lump is very scarce and wanted.

EUPHORBIAUM.—A single bag of Morocco sold at 30s. for small and dusty.

GUAIACUM sold at very fair prices, three barrels realising without reserve 8d. to 9d. per lb. for common drossy to fair slightly drossy broken block.

HONEY.—Jamaica is scarce and sold at an advance of about 2s. per cwt. for the better qualities, nice pale set selling at from 39s. to 40s. 6d.; fair palish set and setting, 35s. 6d. to 36s.; fair to good amber liquid, 37s. to 39s.; and common dark liquid, 31s. Of St. Lucia 30 cases of fine pale liquid sold at 40s. and darkish liquid part ullaged at 30s.; of Cuban 37 tierces sold at from 34s. to 35s. for good brown liquid, and at from 30s. to 32s. for common dark to fair ditto; of Hayti seven barrels realised 37s. 6d. subject for set white.

IPECACUANHA was about 3d. per lb. cheaper, it being difficult to effect sales. Six bales of Matto Grosso were sold at from 7s. to 7s. 2d. for ordinary dull lean, mostly greyish, to fair plump. Minas was held at 8s.

JALAP.—Two bales small to bold Vera Cruz (10.25 per cent. resin) were limited at 11½d. Privately common root, testing about 6 per cent., is offered at 7½d. on spot.

The exports from Vera Cruz during the fiscal year 1911-12 amounted to 136 tons, valued at 11,414l., against 250 tons, valued at 16,467l., in 1910-11, and 178 tons, valued at 11,437l., in 1909-10.

KOLA sold at firm rates, 22 bags of small to medium dried Ceylon realising from 4½d. to 5d. per lb.

LIME OIL readily sold at fully private prices, four cases of good West Indian distilled realising 2s. 9d. per lb., and for a case of hand-pressed 15s. was paid.

OLIBANUM.—Five cases good pale clean small drop were bought in at 40s., and for 25 cases slightly blocky garblings 25s. was wanted.

PAPAIN.—Fair quantities now arrive from Ceylon, and sales are frequently made at 8s. per lb. for brown crumbs.

RHUBARB was quite neglected, medium to bold good flat High-dried with three-quarter good fracture being held at 1s. 1d., round horny ditto at 1s., and small round and trimming Shensi with three-quarter greyish fracture at 3s. 9d. Two cases of common small to medium Rhapontica character from Tientsin sold at 1½d. per lb.

SARSAPARILLA.—Grey Jamaica was again in heavy supply, and only partly sold at a decline of 1d. to 2d. on previous prices, about a dozen bales being disposed of at from 1s. 8d. to 1s. 9d. for slightly coarse to fair, and for dark, part mouldy and damaged, 1s. 5d. to 1s. 7d. was paid. Native Jamaica was also in good supply, and sold at a reduction of 1d. to 2d., from 8d. to 9d. being paid for ordinary dull red and yellow mixed. A further 16 bales of Lima-Jamaica were bought in at 1s. 10d. It is reported that a duty equal to about 1½d. per lb. has been placed on the export of sarsaparilla from Mexico.

SENNA.—The bulk of the Tinnevely leaf offered consisted of inferior yellowish small, for which the importers wanted 1½d., and buyers' idea being 1d., there was practically no business done; from 1½d. to 2d. was paid for a few bales of ordinary to middling greenish, and bolder sold at from 2½d. to 2¾d. per lb. For pods 1½d. was wanted, and several bales sold at this price. Of Alexandrian pods three had been sold privately, and for fair pale 11d. was wanted.

STROPHANTHUS.—A single bag of sound Kombe and a bag of country-damaged sold without reserve at 9d. The value of fair greenish Kombe is about 1s. 2d.

TAMARINDS.—Firm. A lot of nine barrels of fair dry Antigua sold at 14s. per cwt. landing weights; for fair juicy Barbados 17s. was wanted—there were buyers at 16s. 6d.

TONKA-BEANS.—A lot of three cases Para was disposed of without reserve at from 2s. 5d. for common soft, 2s. 9d. to 3s. for dry, part foxy.

WAX (BEES').—Jamaica was 2s. 6d. per cwt. dearer, nine packages being disposed of at 8l. 5s. to 8l. 7s. 6d. per cwt. for ordinary to fair red part dark brown. Eleven bags of East African sold at from 7l. 12s. 6d. to 7l. 15s. per cwt. for fair yellow part drossy. The Liverpool market is quiet and easier at 7l. 10s. to 7l. 12s. 6d. for Sierra Leone.

Manchester Chemical Market.

June 24.

There is rather a quiet feeling, generally speaking, although heavy chemicals showed little change. Deliveries against contracts continue good, but there is no particular feature to note in regard to new business. There is a tendency to buy from hand to mouth for prompt delivery, as is representative of many similar trades. Sulphate of copper shows little change, and prices range from 22l. 10s. to 22l. 12s. 6d. per ton, on rails Manchester. The raw material continues to decline, and on to-day's Exchange manufactured copper was again lower. White powdered arsenic is around 17l. 10s. per ton for English, with Australian 1l. to 2l. per ton lower. Caustic potash is a shade firmer at 19l. 12s. to 21l. 10s. per ton. Permanganate of potash, 37l. per ton. Lead-products continue on the up-grade, owing to the advancing prices of the raw metal. Nitrate is quoted 29l. to 29l. 10s. per ton. Brown acetate of lime is scarce at 7l. 15s. per ton, and grey is quoted 12l. 17s. 6d. to 13l. Glycerin is in better inquiry on spot at about 55l. per ton for crude and 91l. for commercially pure. In regard to coal-tar products, pitch is at present a most uncertain quantity; shipping demand is at a minimum, but for briquettes and road-making the demand is good. Benzols showed little change, although as a substitute for petrol 90's are still bringing full rates for motor purposes—say 1s. 3d. to 1s. 4d. per gal. How long this will continue remains to be seen; much depends on the future of petrol. Sulphate of ammonia is in buyers' favour. Carbolic acid flat.

Continental Drug and Chemical Markets.

CAMPHOR (REFINED).—The sales of German refined have continually become smaller on account of Japanese competition, and in order to increase sales of the former the price of bells has been reduced by m.15 per 100 kilos.

CARBOLIC ACID is very dull; the consumption is much smaller than the production, and this, together with the surplus stocks on hand, account for the large offers which are being made. A further reduction in the quotation of from m.100 to m.105 per 100 kilos. for crystals is not possible, however, without making the article unremunerative.

ERGOT.—Urgent offers have again been made lately, and it is now becoming apparent that large quantities must have been held back in Russia for speculation. As we are gradually approaching the new crops, values are tending lower at m.650 per 100 kilos. for Russian.

GENTIAN.—The somewhat higher price of from m.58 to m.60 per 100 kilos. is likely to prevail until the new crop. But at the moment very little is being offered from the producing countries, so that the present price will have to be reckoned with for some time.

GLYCERIN.—Consumers are still reserved, but refiners, on the other hand, show a certain firmness, and are not inclined to reduce their prices still further; in fact, they hold the view that better prices are in prospect.

IPECACUANHA.—Stocks of both Rio and Cartagena in Hamburg are reported to be small, with m.18 and m.17 per kilo. asked respectively.

QUILLAIA is steady on the Hamburg market, efforts to bring down the prices having failed, as Chile is asking the parity of from m.59 to m.60 per 100 kilos. for prompt and later shipment; prices for cut are unaltered.

WAX, CARNAUBA.—A further shipment of about 2,000 bags, principally fatty grey, has been landed and warehoused in Hamburg. In former years the shipments of new crop were generally spread over the first eight or nine months of the year, but this year the bulk of the crop has already come in, and for the second half of the year probably only isolated parcels will be notified. Market is quiet, but steady to firm at m.317.50 for sandy grey and m.305 for fatty grey. Yellow descriptions retain their old prices, and cost, according to quality, from m.370 to m.405 per 100 kilos.

WOOD OIL.—From Hamburg business is reported in Hankow description on the basis of m.60½ c.i.f.

ZINC OXIDE.—The syndicate controlling the metal has reduced the price; corresponding to this, the Convention of Zinc-oxide makers also notify a reduction of m.150 per 100 kilos. The demand for June and July delivery is reported to have become stronger.



ESTABLISHED 1859.

A WEEKLY JOURNAL OF THE CHEMICAL AND DRUG TRADES
AND
BRITISH PHARMACISTS THROUGHOUT THE EMPIRE.

VOLUME LXXXII.
JANUARY TO JUNE, 1913.

HEAD OFFICE:
42 CANNON STREET, LONDON

BRANCH OFFICES:
ADELAIDE, MELBOURNE, AND SYDNEY, AUSTRALIA

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COLCHESTER AND ETON

National Health Insurance.

Administration of Medical Benefit as regards Chemists' Interests.

Medical Research Committee.

Mr. Lloyd George has appointed the following Committee for the purpose of dealing with the money made available for research under Section 16 (2) of the National Insurance Act:

The Right Hon. Lord Moulton of Bank, LL.D., F.R.S. (Chairman).

Christopher Addison, M.D., F.R.C.S., M.P.

Waldorf Astor, M.P.

Sir T. Clifford Allbutt, K.C.B., M.D., F.R.C.P., F.R.S., Regius Professor of Physic, University of Cambridge.

Charles John Bond, F.R.C.S., Senior Honorary Surgeon, Leicester Infirmary.

William Bulloch, M.D., F.R.S., Bacteriologist to the London Hospital and Professor of Bacteriology in the University of London.

Matthew Hay, M.D., LL.D., Professor of Forensic Medicine and Public Health, Aberdeen University.

Frederick Gowland Hopkins, M.B., D.Sc., F.R.S., Reader in Chemical Physiology in the University of Cambridge.

Brevet Colonel Sir William Boog Leishman, M.B., F.R.S., Professor of Pathology, Royal Army Medical College.

The duties of the Committee will be to formulate the general plan of research and inquiry for each year, to make arrangements for carrying it out, and to supervise its conduct so far as may be necessary, and in particular to secure adequate co-ordination of the various parts of the scheme. The Committee will also deal with the collection and publication of information, and of the results of statistical and other inquiries so far as suitable or necessary. For this purpose it will determine, subject to the assent of the Minister responsible for National Health Insurance, the expenditure of the money available each year, the total of the sums available under paragraph (b) of Sub-section (2) of Section 16 of the Act being about 57,000*l.* per annum. Before the Minister responsible for National Health Insurance gives his final assent to the Medical Research Committee's scheme for any year, he will receive criticisms and suggestions in regard to it from the Advisory Council for Medical Research which has also been appointed.

Meeting of Scottish Pharmacists.

A general conference of representatives of local Associations and Pharmaceutical Committees and others carrying on the business of chemists and druggists in Scotland was held at 36 York Place, Edinburgh, on June 20. Mr. J. P. Gilmour presided. A report was submitted as to the development of local organisation throughout Scotland, also a statement respecting the subscriptions to the

PHARMACEUTICAL STANDING COMMITTEE ON INSURANCE.

Mr. Yule remarking that the expenses would have been higher without the generous assistance of the Pharmaceutical Society. The scheme for the periodical election of the committee was submitted, as well as a communication from Forfarshire chemists suggesting an additional representative for Dundee, and from the Midlothian Pharmaceutical Committee suggesting an additional representative for Edinburgh and Leith.

Mr. Lennox said that the Glasgow Association had had this matter under consideration, and they thought that the committee as a working committee is perhaps too large, and that there might be a general committee with an executive which would do the spade-work.

Mr. J. R. Hill explained that the scheme, as submitted, was strictly in accordance with the instructions to the Standing Committee by the meeting of chemists in March 1912. He suggested that the report should be sent back to the committee and to the local Associations with an explanation, and asking for suggestions on the lines indicated by Mr. Lennox. After discussion this suggestion was adopted, and it was resolved to appoint Mr. W. J. Bethune (Inverness) as a member of the committee in room of Mr. J. F. Tocher (Aberdeen), and Mr. R. L. Hendry (Edinburgh) as a member of committee in room of Mr. C. F. Henry.

DRUG COMMITTEE'S REPORT.

The Chairman made a statement explaining the Report of the Departmental Committee on the Supply of Medicines to Insured Persons, and after discussion the following resolution was unanimously adopted:

"This representative meeting of Scottish pharmacists deems it important to make it known that the Report of the Departmental Committee on the Supply of Medicines to Insured Persons just submitted to Parliament is not based on any evidence from Scotland, and is totally inapplicable to the actual conditions as to the practice of pharmacy in Scotland, either before or since the passing of the National Insurance Act. Scottish pharmacists adhere to the provisions of Section 15 (5) of the Insurance Act, and in the interests of insured persons deprecate any lowering of the standard of qualification for the dispensing of medicines. Further, in view of the great difference between the prescribing and dispensing of medicines in Scotland as compared with England and Wales, and the special conditions affecting the administration of Medical Benefit in Scotland owing to the scattered nature of the population, and the difficulty and inadequacy of the means of communication, this meeting is strongly of opinion that the National Health Insurance Commission (Scotland) should have power to make such local arrangements as the special conditions of Scotland require. This meeting strongly deprecates the proposal appearing in the public Press to the effect that the Government intend to amalgamate the Health Insurance Commissions of the United Kingdom, and for the reasons aforesaid maintain that the National Health Insurance Commission (Scotland) should not only be continued, but should be placed in an even more independent position."

PROPOSED CHEMISTS' TRADE UNION.

The following resolution from the Fraserburgh Chemists' Association was submitted:

"That the Fraserburgh and District Chemists' Association earnestly requests the Pharmaceutical Standing Committee (Scotland) to call a meeting at an early date of all chemists in Scotland for the purpose of creating a chemists' trade union and for the appointment of an organiser for same."

The Fraserburgh Association had been invited to send representatives to the meeting to explain the scheme, but no one appeared in support of it. After remarks by Messrs. Hill, Yule, and Forbes (Perth), the matter dropped.

INSURANCE DISPENSING ACCOUNTS.

It was reported that there had been considerable discussion with the Scottish Commissioners on the question of the checking of chemists' accounts. The Commissioners had definitely decided that they could not sanction a payment out of the administrative expenses fund of an Insurance Committee for the checking of accounts. It was pointed out that, despite this decision, the Commissioners had sanctioned the appointment of a registered chemist for the checking of accounts in connection with the Glasgow Burgh Insurance Committee at a salary of 130*l.* per annum. It was explained that the expenses fund of an Insurance Committee is proportional to the number of insured persons, and in the special circumstances of Scotland the expenses fund of several Insurance Committees is a comparatively small sum, while their administrative expenses are high. In the case of the County of Argyll, for example, it was stated that a single meeting of the Insurance Committee costs 55*l.* for travelling expenses. The decision of the Commissioners had not been accepted by the Standing Committee as satisfactory. There was a strong feeling that the proper checking of chemists' accounts is very necessary in the public interest and in the interest of a proper administration of Medical Benefit. The Standing Committee had therefore made a request to the Commissioners to meet a deputation to discuss the matter, with a view to securing some plan for a proper checking of chemists' accounts.

Messrs. Guthrie, Simpson, Rowland, Nisbet, Reith, and Drummond discussed the subject, the speeches indicating the strong desire of chemists generally that some proper system of checking should be established for Scotland by the Insurance Commissioners.

RURAL AREAS.

It was explained that in the County of Dumbarton a representation by the Standing Committee to the Commissioners had resulted in a local inquiry, following which the Commissioners had declared that certain populous districts are not rural areas, and consequently the dispensing of medicines in these places, although situated more than one mile from a chemist's shop, had been retained in the hands of the local chemists. Similar districts in other parts of Scotland were being dealt with. In the County of East Lothian the Insurance Committee had insisted on all doctors rendering accounts for medicines supplied, rather than receiving a *per capita* sum of 2*s.* per insured person. In West Lothian the Insurance Committee had decided that only in the case of a doctor's house being more than a mile from a chemist's shop would the question of dispensing in a rural area be entertained. Application had been made to the Chancellor of the Exchequer to receive a deputation to urge the abolition of the one-mile limit arrangement. A reply had been received stating he was unable then to meet a deputation, but promising to write. No letter had been received, and application had again been made to the Chancellor urging upon him the desirableness of receiving such a deputation.

Mr. McNab stated that in the County of Midlothian a careful scrutiny of the doctors' lists had been made, with the result that they discovered that 850 persons had been claimed by doctors for dispensing, although, on inquiry, it was ascertained that they were less than a mile from a chemist's shop. This number is not yet complete. He strongly recommended chemists to scrutinise the lists of doctors, because he believed that in many cases they are dispensing medicines for persons less than one mile from a chemist's shop.

It was reported that, on a suggestion from the Scottish Insurance Commissioners, the Standing Committee had made application to Mr. Masterman, M.P., to receive a deputation, with a view to securing a statutory right to representation of chemists on all Insurance Committees.

A vote of thanks was accorded to the Chairman on the motion of Mr. J. H. Thomson.

Notes.

THE REGULATIONS governing inquiries into the conduct of medical practitioners on the panel have been published this week. The title is "National Health Insurance (Medical Practitioners: Inquiry Procedure) Regulations, 1913." The schedules consist of the forms to be used by local Committees in corresponding with the person whose conduct is complained of.

IN THE ACTION taken in the Glasgow Small Debt Court by an insured person against Dr. J. N. Ramsay, referred to in the *C. & D.*, June 14, index folio 910, Sheriff Lee has repelled the defender's plea that the only party who had a right to sue him under the Act is the local Insurance Committee. His Lordship stated, in his judgment, that the pursuer founds his title to sue on the averment of a contract completed between the defender and himself in the course of and through statutory procedure. Pursuer's interpretation of the legal position is the correct one, said his Lordship.

CHOICE OF DOCTORS.—The Commissioners (Scotland) have informed the Roxburgh local Medical Committee that the Act gives to the insured person the right to receive treatment from the one doctor whom he chooses from the panel, and any further advice that may be desired by the patient must be arranged for outside Medical Benefit. Where a doctor considers that a case necessitates a consultation with another doctor, it is his duty to advise the patient accordingly. If the doctor's advice is acted upon the fees of the second doctor called in must be borne by the insured person.

THE SURREY INSURANCE COMMITTEE have remitted to the Commissioners a novel question. An insured person had three teeth extracted by a dentist, and as the bleeding did not stop he called in the panel doctor, who refused to attend, saying that the matter does not come within the scope of Medical Benefit. The Sub-committee of the Insurance Committee considered that the doctor should have attended, and referred the question of payment to the local Medical Committee under Regulation 53, but the reference to the Commissioners is the upshot.

Medical Benefit Administration.

With special reference to the supply of medicines and appliances.

Bath.—The protest of the Bath Pharmaceutical Association against the payment of only 50 per cent. of the chemists' accounts for the first quarter has been successful, and the Commissioners authorise the Insurance Committee to regard a sum equivalent to 6d. per head of insured persons as available for paying the drug bills. This will result in the chemists receiving another 7s. 6d. in the pound.

Berkshire.—A meeting of representatives of doctors and chemists on June 18 rediscussed the revised tariff, which had been referred back by the Insurance Commissioners, who had objected to the inclusion of Gamgee tissue, Billroth cambric, and Japanese ice-bags, on the ground that they are proprietary articles. It was decided to include absorbent tissue and drop the others. The single-prescription form was also discussed, and the doctors, being unwilling to allow a copying-fee, agreed to revert to a duplicate or triplicate form, provided one can be supplied without loose carbon sheets, the same to be put in hand as soon as possible. The chemists agreed to waive the copying-fee for those forms already issued. The chemists have agreed to the Pharmaceutical Standing Committee pricing and checking the prescriptions, the County Insurance Committee bearing half the cost, in lieu of appointing their own auditor. Half the cost of the prescriptions in the hands of the clerk will be debited to the accounts already sent in.

Chesterfield.—A meeting of the Chesterfield Pharmacists' Association was held at the Hotel Portland on June 19, Mr. George Wright in the chair. It was proposed by Mr. Denwood, and seconded by Mr. Twelves:

"That owing to the small amount of dispensing done by chemists in the Chesterfield district—due to the medical aid being allowed to do their own—we endeavour to obtain a minimum dispensing-fee of 3d. on all prescriptions that are dispensed on Wednesday evenings, Sundays, and Bank Holidays."

A resolution was also carried to the effect that application should be made for an extra penny fee on all prescriptions for "Rep. mist." to compensate for the time and trouble taken in searching for and copying the prescription. General dissatisfaction was expressed that amounts should be deducted from the chemists' accounts without any explanation as to what they were deducted for.

Denbighshire.—At a meeting of the Provisional Insurance Committee for the County of Denbigh the following letter from the Welsh Commissioners, dated May 21, was read:

"I am directed by the Welsh Insurance Commissioners to advert to your letter of the 6th inst., and to state that the Commissioners are not as yet in a position to state definitely what the cost would be to Insurance Committees of having chemists' accounts checked by an independent staff in this office, but they are of opinion that such cost would probably not exceed the sums charged by the Pharmaceutical Standing Committee for the first quarter. I am to state that it will probably be possible to give a more accurate estimate of the cost after particulars have been received from all the Insurance Committees in Wales of the prescriptions dealt with during the first quarter of this year."

The clerk reported that about 940l. would be available for the Drug Fund for the quarter, and that out of this 540l. 0s. 9d. had been paid to chemists on account. The claims of chemists came to 798l. 17s. 7d., and these had been reduced to 771l. 2s. 9d. on the checking by the Pharmaceutical Standing Committee on Insurance.

Kirkcaldy.—At a meeting of panel doctors and chemists on June 19, a letter was received from the Clerk to the Insurance Committee stating that the Insurance prescriptions of Dr. Proudfoot amounted to 98l. 16s. for the first quarter, against the average of 36l. 10s. of others on an equal number of patients. The result was that the Insurance Committee had to deduct 20 per cent. and 25 per cent. off the drug accounts. Mr. Stewart showed that the accounts would have been paid as arranged had it not been for this excessive drugging. It was unanimously agreed to remit the matter to the Insurance Committee, which met on June 20, when a letter was read from Dr. Proudfoot pointing out that it seemed he had been found guilty of over-prescribing. Whatever that meant he did not know. The patients had only been getting fairplay. He believed the chemists were out of pocket to the extent of 34l., and he had no desire that any should lose money through the said over-prescribing. He had much pleasure in enclosing a cheque for 34l. If any further loss to the chemists arose from his over-prescribing, he asked them to let him know. In the course of the discussion, the Clerk stated that the difference was not 34l., but 62l. The accounts for drugs for the first quarter came to 374l., and it is doubtful if the Committee would have more than 330l. to pay them. The whole matter was remitted to the Finance Committee for consideration and report. The Committee also considered a complaint against a doctor who had not attended with sufficient promptness to a message through a chemist to him for attendance upon an insured person. The reason given for the delay was that the person did not give his medical card to the chemist.

Liverpool.—The Liverpool Insurance Committee have forwarded a further amount on account of the supply and dispensing of drugs and appliances during the quarter ended April 14, 1913. This payment, together with the previous cheque paid, represents approximately 16s. 6d. in the pound of the chemists' accounts as rendered, leaving a balance of 3s. 6d. in the pound from which to deduct errors, overcharges, etc., when the first quarter's prescriptions come to be checked. The chemist is asked to sign receipt at foot of cheque, on condition that he accepts the following:

"The payment is made on condition that in the event of the sum found to be due under the agreement which you have entered into for the said period being less than the amount of this and the cheque previously forwarded, you authorise the Committee to deduct such excess from any further sums which may become due to you for a period subsequent to April 14 1913, or, failing any further sums becoming due, that you undertake to repay to the Insurance Committee the said excess."

The chemists on the Liverpool panel have received a copy of the new tariff, which includes the late fees, etc., and other concessions obtained by the Pharmaceutical Insurance Committee of the Liverpool Chemists' Association (see *C. & D.*, May 17, index folio 759).

Manchester.—The Insurance Committee, in the course of a circular issued to panel chemists, state that the following proprietary articles have been passed on the first quarter's prescriptions at cost price: Angier's Emulsion; Allenburys' Malt and Malt and Oil; Bromo-carpine; caustic

pencils; enules (various); Hough, Hoseason's Emulsion; Jecoval; Kepler preparations; Maltine preparations; Parke Davis' Cascara Extract; Parke Davis' Emulsions; Scott's Emulsion; Trommer's preparations; and Wander malt preparations. Certain other preparations and articles which are obviously outside have been disallowed, such as elastic-web bandage, belts, brushes, douches, elastic stockings, eyedroppers, insufflators, jaconette, knee-caps, pessaries, poroplastic, sprays, syringes, suspensory bandages, safety-pins, trusses, and wood-wool wadding. The Committee have also disallowed natural Carlsbad salts, Emol Kelcet, Formamint, Izal, iodoform gauze, Kruschen salts, Parke Davis' bronchial lozenges, Panopepton, peptonising powders, resinol ointment, Sanadine, serums, stramonium cigarettes, Sanitas, soaps, Sanatogen, Salvarsan, Thermogène wool, thyroïdectin capsules, Tidman's sea salt, Trilene tablets, Virol, Valentine's meat-juice, and vaccines. For Fellows' Syrup they only allowed the price of the B.P.C. imitation.—A meeting of panel chemists was held in the Onward Hall, Deansgate, on June 18, to discuss Insurance matters. It was called by the Manchester Pharmaceutical Insurance Committee, as it was felt that many of the chemists who had a grievance or a complaint could bring it forward and have the matter discussed. Any chemist wishing to bring a particular point before the meeting was expected to give notice in writing to the Hon. Secretary (Mr. G. A. Mallinson) beforehand. Mr. F. W. Bates (President of the M.P.A.) occupied the chair, and Mr. Harry Kemp, Mr. Mallinson, and others were on the platform. Mr. Bates dealt with the complaints which had been sent in. One chemist complained that his account had been discounted in a most unfair manner; among others was that of a proprietary peptonising powder, of which he had supplied quite a large quantity. It was pointed out that those preparations, along with many others of the same nature, had been banned as outside the regulations of the schedule, and could not be allowed for. One chemist had supplied quite a lot of streptococcus serum, which was banned. After others had spoken, Mr. Mallinson, in reply to the more pertinent questions, said he thought the Pharmaceutical Insurance Committee had done very well, and if the doings of the various Committees in other parts of the country were anything to go by, the chemists of Manchester had nothing to grumble at. The actual amount deducted as overcharges from the chemists' accounts for Insurance amounted to only 25% on a total of 6,000%. The question of "Repeats" was brought up again, and the meeting was informed that on the receipt of the new tariff (which ought to be in their hands in a few days) repeats would probably be discontinued. Mr. J. Cleworth proposed "that this meeting accepts the list of banned articles, and expresses its confidence in the Manchester Pharmaceutical Insurance Committee." Mr. Griffiths (Droylsden) seconded, and the motion was carried unanimously. One or two chemists brought forward the question of stock mixtures for submission to the medical profession; but Mr. Bates thought it was most unwise to introduce stock mixtures. Mr. Halkyard moved that the list of banned articles be not sent to the medical profession, as it was totally unnecessary and expensive. Mr. Nidd seconded, and the motion was carried unanimously. Mr. Mallinson informed the meeting that the Insurance Committee have decided to pay two-thirds of the accounts on the third Wednesday in every month after the accounts are rendered. The Chairman closed the meeting by stating that the Checking Committee had a most difficult task to perform. They wanted to do the best for the insured person and at the same time deprecate extravagant prescribing and delete as many as possible those articles which in an ordinary way no medical man would supply.—By a large majority Manchester doctors have decided to continue the present system of working their share of Medical Benefit until the early part of next year. A postal vote was taken, and the result was announced at a largely attended meeting of the profession held on Monday night, June 23.

Newcastle-on-Tyne.—The local Chemists' Panel Society met in the Hôtel Métropole, Clayton Street West, on Tuesday evening, June 17. It was unanimously agreed that the Secretary should forward a request to the local Insurance Committee to make *ad interim* payments of quarterly accounts to panel chemists. Mr. Wright brought forward several tariff matters, which received the support of the meeting. The President (Mr. T. M. Clague) was deputed to interview the clerk of the local Insurance Committee with regard to the alteration in price of dec. aloes co. and all poisonous liquids. It was unanimously decided that a dispensing-fee should be charged in every case where other ingredients are added to a stock mixture. The meeting expressed the desire that another pharmacist should be appointed to represent the panel on the local Insurance Committee, and Mr. Wright was requested to use every endeavour to influence the Committee in this direction.

Oldham.—Mr. Frank Davies has written to the Insurance Committee on behalf of the Oldham Pharmaceutical Committee, pointing out the difficulty of pricing prescriptions from two tariffs, and with the varying prices of drugs, etc., and suggesting that the whole matter of prices should be settled by the three parties concerned. He also protested against the issue of white single prescription-forms, and of the small sum paid on account to the chemists. The clerk stated at the meeting of the Committee that the bills rendered amount to 1,869/ 17s. 9½d., and the amount to the credit of the Drug Fund is only 1,172/ 3s. 1½d., thus permitting of a payment of 62.7 per cent. The Committee decided to pay the chemists 10 per cent. more than the 50 per cent. already paid. The Committee also referred to the Pharmaceutical Association and the Medical Committee the question of considering the relative merits of various prescription-forms for a recommendation. It was agreed to have a list of emergency drugs, bandages, etc., to be stocked for doctors.

Plymouth.—The Medical Benefit Sub-committee recently reported to the Plymouth Insurance Committee that it had passed the following resolution:

That, as some doctors on the panel are ordering expensive drugs, and the charge on the Drug Fund appears likely to be much heavier in Plymouth than in Devonport, cases of what might be considered unduly expensive prescriptions be brought before the Sub-committee for consideration.

In reply to observations by medical men, it was explained that the Sub-committee had no thought of deciding whether particular drugs are rightly included in a prescription or not; what was meant was that the doctors were prescribing proprietary articles, and that the same drugs could be prescribed in a less expensive form.

Salford medical practitioners on the panel held a meeting on Friday, June 20, and decided to continue the existing arrangements with the Insurance Committee until the end of the year. In an interview with a newspaper representative, one Salford practitioner said the system is working badly. For the last quarter they had received only 56 per cent. of their fees, and he said the chemists are even worse off, as they had got only 46 per cent., but are having the extra sixpences divided among them proportionately. (See C. & D., June 14, index folio 910, and June 21, 952.)

Southampton.—The Insurance Committee, at the request of chemists, have decided to reopen the question of a revised drug tariff, and have asked the local Medical Committee to consult with the local Pharmaceutical Committee on the subject, and report.

West Bromwich.—It was reported at a meeting of the Insurance Committee on June 18 that the local Pharmaceutical Committee had not then replied to the request as to keeping open in the evenings for dispensing ordinary prescriptions.

West Riding. Throughout this district pharmacists regard the Report of the Departmental Committee as a triumph for them, writes a correspondent. Though the case of the drug-store proprietors was directed against Leeds and Bradford in particular, it was felt that the complainants desired to suggest an indictment against the craft in general, in order to prop up a claim for a share in work for which they are not qualified, and the failure of the indictment in relation to the two cities mentioned is very heartily welcomed. There was a temporary difficulty in East Leeds and Holbeck, and in Bradford there were no chemists' shops at the moment of the coming into operation of the Act for the small segregated populations of Allerton and Low Moor. The Pharmacists' Associations of the two cities, however, undertook the filling up of the blank places, and entirely succeeded in this before the Departmental Committee had closed its inquiry. Eleven new shops were opened in Leeds and six in Bradford for this purpose, the question of the possibility of a satisfactory profit being subordinated to the more important matter of the entire satisfaction of the needs of insured persons. It is admitted that an effect of the operation of the National Insurance Act has been to cause an exceptional demand for fully qualified dispensers, and therefore a relative scarcity; but that is held to be an argument rather for effort to increase the supply of such qualified persons than for the granting of privileges to the unqualified, and attention is being directed to the encouragement of young men to enter pharmacy, now that a prospect of a career in it is so much better than it has been for many years past.

West Sussex.—The Insurance Committee have referred back to the local Medical Committee for their observations the question of extra payments to chemists for certain infusions and copying prescriptions.

CALIFORNIAN QUICKSILVER.—The output in 1911 was 183,167 flasks, as compared with 166,459 flasks in 1910.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Label of Cotton-wool.

SIR,—With reference to Mr. Berliner's letter in your last issue where he states: "To protect my customers, I label the interleaved wool 'One-pound packet,' and I may say that the same weighs a pound without the outside wrapper." Perhaps Mr. Berliner would kindly inform the trade what he considers a pound (16-oz. packet) of cotton-wool ought to weigh without the interleaving paper.

JUSTUS. (117/2.)

Insurance Dispensing Charges.

SIR,—I have been informed that I have overcharged between 2*l.* and 3*l.* without giving me details to check the same. I have done what I would advise all chemists to do, demand equity—that is, the number of prescription, name of drugs, and amount overcharged; in fact, a detailed account of halfpennys, the same as they have demanded of the chemist, which has given him so much work, and is worth double what he will get for his labour for dispensing. I have had an interview with one of the gentlemen at Wellington House, Buckingham Gate, to whom I poured out my grievance. He replied in these words: "If your Society had, at the right time, represented you as efficiently as the British Medical Association represented the doctors a much larger amount would have been granted to enable you to receive better pay, and I think you deserve it." Does not this corroborate the views expressed by the clear-headed Mr. Jackson?—Yours truly,

ANTI-SWEATER. (115/27.)

Drug Stores and Dispensing.

SIR,—The recommendations of the Drug Committee, as given in your last week's issue, do not, in my judgment, go so far as you seem to infer. You say on p. 33 that such an amendment of the Insurance Act is suggested by the Committee as will enable drug-store proprietors to be authorised to dispense medicines as far as they legally may; but what seems actually to be recommended is that, "if it should for any reason be deemed advisable" so to amend the Act, care should be taken to guard against any abuse of the concession. The difference may be slight, but it is not unimportant, especially in the light of what is said earlier in the Report of the inadvisability of "any relaxation of the restrictions at present imposed by the Subsection." On this latter point the Committee is emphatic:

"The compensation which such persons could thus obtain . . . would be so small as not to justify the inconvenience and possible injury to the insured, and the general administrative disadvantages of such an arrangement."

These are sound and weighty words which would entirely justify any opposition we might offer to the amendment of the Act, even in so small a degree as this Report would sanction. The inconvenience, not only to the public concerned, but particularly to all who have any share in working the Act, would be enormous. How is the patient to know which prescriptions do and which do not contain poisons the unregistered man cannot dispense? It is not even desirable that he should know; but, not knowing, he might conceivably have to visit half a dozen "pharmacies" before lighting upon a pharmacist. Who is to be his guide? The practical effect of the amendment would probably be that the prescriber would direct his patient to some particular chemist. This would meet the difficulties

occasioned by it, but would defeat one of the main purposes of the Act. In no case is it likely that the unregistered man would gain any substantial advantage by the change, which at the best would but emphasise the inferiority of his position. The total result would be inconvenience and possible injury to the insured, annoyance to ourselves, confusion all round, and no good to anybody.

None of the objections that might be urged against the proposed amendment I have been discussing applies to the case of assistants working for panel chemists. Apothecaries' dispensers and the other classes affected have a much stronger claim to consideration, and have been much more modest in putting it forward, than the drug-store proprietors; and the mode in which the Committee suggest that it should be met is perhaps as fair as any, while at the same time satisfying the requirements of the service. There is too much point in what is said with regard to dispensing under the supervision of a pharmacist. It is to be feared that such supervision is often somewhat perfunctory, and while it is so we cannot consistently take a very high stand in the matter. I hold with "Xrayser" that there are objections to the multiplication of examinations, but new conditions necessitate new methods. A modified examination for assistants may be required to meet the present emergency, but the ideal plan—or the nearest feasible approach to an ideal plan—for the future would seem to be the granting of an assistant's qualification to those who have passed the practical half of the existing Minor; who have, in fact, as the Report puts it, shown themselves to be *bona-fide* students of pharmacy, and who have the intention of proceeding in time to the whole course. The creation of a large class satisfied to be permanently mere assistants is certainly not desirable. Pharmacy is essentially a calling which demands the strongest personal interest and sense of responsibility; is, in short, a calling for individuals and not for companies. The latter are, and always will be, trading corporations first and pharmacists afterwards; but pharmacy ought to be something more than a trade, and, as such, able to stand on its own bottom.

Yours truly,

LEX. (115/90.)

Insurance Dispensing Queries.

STUART'S DYSPEPSIA-TABLETS.—C. W. (113/63) asks what ought to be charged for a 100-bottle of these tablets? The directions are "Sig.: One t.d.s." [The official rule is "P.A.T.A." price *plus* dispensing-fee—i.e., 4*s.* 6*d.*+10*d.*=5*s.* 4*d.*]

PIL. FERRI.—P. J. (116/33) puts this question: When pil. ferri P.B. gr. v. (recentis) are ordered, how should they be priced, fifty being ordered? [The tariff price in England and Wales is 2*d.* per dozen without dispensing-fee; 2½*d.* is the charge in this instance, the fact that the pills are made up fresh making no difference.]

PRICES FOR POUND QUANTITIES.—W. M. T. (112/23) asks if he is entitled to charge sixteen times 2½*d.* per oz. for liq. hydrogen. perox. (10 vols.)? [No; it costs only half as much as the 20 vols., so that the charge for 1 lb. of 10 vols. should be 1*s.* 8*d.* *plus* dispensing-fee 3*d.*, as it is not in the list. In the case of the 20-vol. solution the charge has to be at the rate of 2½*d.* per oz. *plus* dispensing-fee. There is no specific rule for pound quantities, so that in cases where 16 fl. oz. and 1 lb. are practically synonymous, ounce rate should be the basis of charge; thus liq. sodii chlorinat. 1 lb. is 11*d.*, 1 lb. ol. olivæ 1*s.* 4*d.* (no dispensing-fee), and 1 lb. absorbent gauze has to be charged on the basis of 9½*d.* per roll, 6 yds. by 1 yd.]

LOCAL FORMULÆ.—G. F. S. (117/73) writes: A local doctor some while since sent me a sheet of formulæ, which I was to copy, as it was to be sent to the other chemists in turn. He now always orders just mist. ferri, mist. strychn., mist. bromidi, etc. When the accounts are next asked for, how shall I stand? Surely I shall not be expected to copy out formulæ. I presume he will settle that with the Committee. I have so far priced as follows:

Mist. ferri	...	...	...	...	4 <i>d.</i>
Dispensing-fee	...	...	...	...	2 <i>d.</i>
					6 <i>d.</i>

[We do not suppose that the doctor has arranged the matter with the Insurance Committee. It is not his business

to do so; it is the chemists' look-out to see that they conform to the terms of their agreement with the Insurance Committee to render accounts in the prescribed manner. They should do one of two things: (1) Put the whole matter before the Clerk to the Insurance Committee, asking him to get the authority of the Committee to sanction rendering the accounts as our correspondent is doing; or (2) when the accounts are rendered submit along with the priced prescriptions the formulæ of each mixture.]

DRACHM RATE.—*Midlander* (114/56) writes: "Is not your reply in the issue of June 21 wrong—viz., Drachm Rate (*Chemicus*, 102/55)? You state 15 grains to 119 grains inclusive applies, then continue: 80 grains rhubarb and giss. liq. morphinæ mur. are charged 1½d. each, not 1d. Should this not be reversed—that is, charge 1d., not 1½d.?" [It would seem from the question put by "Midlander" (an experienced man in these matters) that the rule "¼ of a drachm or ounce or larger quantity to be charged at drachm or ounce rate, as the case may be," is not sufficiently understood. The effect of it may be put thus:

A. Quantities up to a fraction less than 15 grains or minims to be charged at grain or minim rate.

B. Quantities between 15 grains or minims and a quarter of an ounce (say 119 grains or minims) to be charged drachm rate. [Rhei rad. pulv. is 1d. per drachm, so 80 grains is 1½d.; liq. morph. hydrochlor. is 1d. per drachm, so 5iss. is 1½d.]

C. Quantities above those in C to be charged ounce rate (e.g., 3ij. of either of the medicines named is 1d.).

In a supplementary note our correspondent says his "point is that the charge for all quantities under ¼ oz. or 3ij. should be 1d., not 1½d." We know of nothing to justify that conclusion.]

WEST SUFFOLK CONTRACT.—A *Chemist* (111/35) writes: "Perhaps you will allow me to give my experience of the National Insurance dispensing, and the West Suffolk Committee's mode of payment, to which reference was made in the *C. & D.*, June 21. First, I would point out we were requested to sign a contract to April 14, not at tariff price, but at 1d. per oz. in any size, plus a dispensing-fee of 2d. for mixtures, payment to be made quarterly, less 25 per cent. This was afterwards extended to June 1 at the same rates. The doctors were appointed not at *per capita* fees, but at 1s. 6d. a surgery consultation. Naturally the doctors wished for as many visits and as often as possible. This will explain why they ordered medicines in the way they have done. Very well! The accounts were sent in at the end of each month, as required, and no remarks of any kind made about them. In April I was requested to forward my remaining prescriptions up to April 14, as the Committee wished to make a payment as soon as possible. My account from January 15 to April 14 came to about 25l., and I heard no more about it till June 6, when I got a cheque for less than 12l., and a letter to say they had sent me three-quarters of the sum allowed, being about 16l., so that they had knocked off 9l. The explanation given by the clerk was as follows:

"In examining these accounts, the Committee found that there had not been a uniformity of dose in the drugs prescribed, owing to several local conditions which had existed in the past. Recognising that the only equitable basis would be either to advance half-ounce doses to one-ounce doses, and so double the price, or to reduce one-ounce doses to half-ounce doses, and so halve the price, they decided on the latter course, and that is the reason why certain accounts, as passed, are less than the accounts as rendered. You will recognise that had the other method been adopted the payment would have been the same, as there is only a certain sum of money to meet these accounts. If the accounts had been increased, only half would have been paid; while by the reduction almost the whole of the accounts would be paid in full."

It will be seen from this that the Insurance Committee wish to ignore the contract price and set up a fresh standard. I should like to have an opinion as to their power to do this, and what remedy I have to protect myself against it, because it seems to me quite a farce to contract at one price and then pay on another; and I do not suppose if the thing had been reversed they would have paid any excess. It is no business of mine to alter a prescription, and I have simply to dispense as ordered, and I expected to be paid for what I contracted for. It seems rather a serious matter to have 37 per cent. of these accounts deducted, and a chance of not getting another 25 per cent. under the agreement. I do not know what my position is. Can I fight it out as a breach of contract, or what is my remedy? I have another 25l. due, based on the same prices and contract. Since then, a fresh contract-form has been issued to date from April 14, with the new clause as to rates, which was printed in the *C. & D.* of June 21." [By the terms of the April contract each signator agreed to accept "an amount bearing the same proportion to the sum credited to him as the amount

in the Drug Fund bears to the aggregate amounts so credited to all those persons." This condition is continued. It is universal so far as Insurance dispensing is concerned, the general effect being to limit the payment of drugs and appliances to not more than 2s. per insured person in the area covered by each Insurance Committee. The drug tariff was carefully compiled, and provisions made as regards prescribing, with the object of ensuring for the suppliers of drugs full payment, but departure from these conditions in West Suffolk robs suppliers of drugs there of the assurance provided by the official method. The local Pharmaceutical Committee should take the matter up, with the object of getting the Insurance Commissioners to veto the arrangement.]

Legal Questions.

Before writing about your difficulty
Druggists' Diary," 1913, pp. 211-242
legal difficulties are anticipated.

"The Chemists' and
p. 457-459, where most

Dimolite (116/40).—You are not required to register or patent your proprietary medicine. See, however, the article on trade-marks in the *C. & D. Diary*; also the articles on the sale of poisons and the Medicine Stamp Acts.

H. B. (60/7).—As far as we are aware, the Board of Customs and Excise have not declared the title "Blood-forming Capsules" to constitute liability to medicine stamp duty, but "Makes good blood" is regarded as a dutiable phrase.

T. M. (114/3).—When an employer makes an offer to an assistant which the latter accepts, a definite contract is entered upon, and the employer is liable to pay the assistant a month's salary (or less, according to the custom of the country) if he "cries off."

Sacchar. (107/20).—The right to sell KNOWN, ADMITTED, AND APPROVED REMEDIES unstamped belongs solely to those mentioned in the second paragraph of the statutory quotation as to "Exemptions" on p. 217 of the *Diary*. Then you will find by reference to the paragraphs on "Apprenticeship," p. 218, "Chemists" and "Companies," p. 219, that nowadays the exemption is enjoyed by (1) registered chemists; (2) limited companies carrying on business in accordance with Section 3 of the Poisons and Pharmacy Act, 1908—that is, with a registered chemist as superintendent, and each premises managed by a registered chemist; and (3) those who have satisfied the Board of Customs and Excise that they have served an indentured apprenticeship to a registered chemist. A firm or company of grocers who have a drug department not managed by a qualified chemist cannot sell "known, admitted, and approved remedies" unstamped.

L. W. B. (108/24).—See reply to "Sacchar." THE DISCLOSURE required by the Board of Customs and Excise is on the label only of the known, admitted, and approved remedy, and not upon any advertisement issued in respect to the remedy, whether showcard, handbill, or advertisement in newspaper. It is a common enough error to suppose that everything pertaining to a known, admitted, and approved remedy must have a disclosure upon it. The terms as originally given in a letter addressed by the Board to THE CHEMIST AND DRUGGIST in July 1903 were as follows:

The Board have decided to regard as falling within the special exemption . . . medicines composed of drugs the denominations, properties, qualities, virtues, and efficacies of which are known, admitted, and approved, and which are sold by a duly qualified chemist and druggist, provided that either—

- (1) The formula of the preparation is stated; or
- (2) That the medicine is prepared in accordance with a formula in the British Pharmacopoeia or other well-known book of reference, and this fact is stated or otherwise indicated on the label.

On the 31st of the same month the Board informed us in consequence of a malicious rumour—

"That Mr. — is under a misapprehension in stating that the Board will not regard a statement on a label that a medicine is prepared according to a formula in 'Pharmaceutical Formulas' as bringing the preparation within the exemption in favour of known, admitted, and approved remedies. The Board will regard such a statement as *prima facie* evidence that it is an article to which the exemption applies, and they were under the impression that you had been so informed."

Since that time the Board have expressly authorised the use on labels of the initials "P.F." to indicate reference to "Pharmaceutical Formulas."

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published prices, usually 6d.

Nemex (95/14).—(1) We cannot undertake the analysis of the powder about which you supply no particulars. (2) **BOOKS ON MEDICINE.**—As supplemental works to "Diseases and Remedies," Latham's "Dictionary of Medical Treatment" (Churchill, 6s. 6d.) and Quain's "Dictionary of Medicine" (Longmans, 21s.) are good. (3) **APPRENTICES' INDENTURE.**—A suitable form was given in *The Chemists' and Druggists' Diary, 1911*, a copy of which you could probably obtain by advertising in the Coloured Supplement.

Nemo (92/16).—**SILVER-CLEANING POWDER.**—The following formula resembles in composition the sample you send:

Rouge 1 oz.
Heavy carbonate of magnesia ... 4 oz.
Gilders' whiting 1 lb.

Mix thoroughly and sift three times.

S. H. P. (100/63).—**SYPHON-TOP POLISHING-PASTE.**—This is prepared chalk with a small proportion of rouge made into a paste with glycerin and water.

M. R. J. (106/66).—**THE CHLORINE-PROCESS** of bleaching tallow consists in boiling the fat with a solution of bleaching-powder in the proportion of 1 per cent., or of potassium chlorate to which hydrochloric or sulphuric acid is added—about 2 to 2½ lb. of chlorate per ton is employed. A mixture of manganese dioxide and hydrochloric acid is also used; in each case the melted fat is heated with the bleaching-agents, stirred in the meantime, and finally washed with hot water before allowing the tallow to set.

Mines (108/17).—**BOOKS ON GOLD-MINING.**—Rankin's "Prospecting for Gold" (Lockwood, 7s. 6d.); Lock's "Practical Gold-mining" (Spon, 42s.); Lock's "Principles and Practice of Gold-milling" (Spon, 30s.); Park's "Cyanide Process of Gold-extraction" (Griffin, 7s. 6d.); Rose's "Metallurgy of Gold" (Griffin, 21s.). In Cahen and Wootton's "Mineralogy of the Rarer Metals" (Griffin, 6s.) there is a usual outline process for the analysis of minerals in the field, but gold is not specifically dealt with.

A. W. (108/23).—**OPTICAL INSTRUCTION.**—Full particulars as to where optical instruction can be obtained were given in the Educational Number of *THE CHEMIST AND DRUGGIST* (August 17, 1912, index folio 304). The address of the Clerk of the Spectacle-makers' Company is 11 Temple House, Temple Avenue, London, E.C.

Rogamus (102/41).—**BOOKS ON MECHANICAL DENTISTRY.**—Wilson's "Dental Mechanics"; Tomes's "Prosthetic Dentistry"; Essig's "Text-book of Prosthetic Dentistry"; Evans's "Practical Treatise on Artificial Crown, Bridge, and Porcelain-work" (17s., 1905); Hunter's "Mechanical Dentistry" (3s. 6d., 1895); Richardson's "Practical Treatise on Mechanical Dentistry" (22s., 1897); Rose's "Dental Mechanics" (five vols., from 2s. to 3s. each).

A. F. (102/57).—**SKIN-CREAMS.**—We gave in the *C. & D.*, May 24, index folio 811, a number of references to formulæ for skin-creams which have been published in this journal. As recently as April 12 (index folio 574) we gave a formula of the type you require.

E. S. R. (102/48).—**BOOKS ON CHIROPODY.**—Wagner's "Handbook of Chiropody" (Osborne, Garrett & Co., 5s.); Hughes's "Manual of Chiropody" (Wyman & Son, 2d.). The last-named is a War Office publication.

T. T. N. (103/11).—**DULL-BLACK FOR RIFLE SIGHTS.**—This is made with lampblack and methylated spirit, with a small proportion of varnish to cause the black to adhere. The chemical method of blacking gun-barrels, which produces a durable result, is rather a troublesome process, and is best left to the gun-maker. We can give you, however, the details of the process if you desire to experiment with it.

R. S. (101/20).—(1) **BOOKS ON LIQUID AIR.**—Sloane's "Liquid Air and the Liquefaction of Gases" (Low, Marston, 10s. 6d.); Hardin's "Rise and Development of the Liquefaction of Gases" (Macmillan, 6s.). (2) **RESCUE APPARATUS FOR MINERS.**—Particulars of the latest appliances used in rescue work

in mines are given in the new list published by Messrs. Wallach Bros., Ltd., Royal London House, Finsbury Square, London, E.C.

W. H. G. (Natal) (101/4).—Brass is lacquered to preserve its brilliancy. The lacquer employed is a thin varnish tinted to resemble brass. This is applied to the heated metal, which is then again heated to a high degree, whereby the lacquer is made practically indestructible by atmospheric agencies, and is not readily attacked by resin solvents. The following recipes for lacquer are from "Pharmaceutical Formulas":

1.	2.
Shellac 3iij.	Cape aloes 3 oz.
Turmeric 3j.	Sandarac 4 oz.
Annatto 3ij.	Shellac 8 oz.
Saffron 3ij.	Gamboge 8 oz.
Spirit 3xvj.	Spirit 1 gal.

Make a tincture of the drugs, filter, and in the filtrate dissolve the shellac. Again filter or strain.

Macerate for four days, and filter.

W. J. C. (100/20).—**TAR-STAINS** are best removed by oil of turpentine and benzine used alternately. If the stain is old it should first be softened by applying olive oil or butter.

E. M. (101/44).—**BOOKKEEPING SYSTEM.**—It is not possible within the limits of this column to give the necessary details of a system of accounting for chemists' use. The matter was dealt with in the *C. & D.*, January 30, 1909, p. 181, and February 6, 1909, p. 245, two systems being explained. Thornton's "Bookkeeping for Business Men" (3s. 6d.) and "First Lessons in Bookkeeping" (2s. 6d.), published by Macmillan, are good general works on the subject. You should also obtain the particulars of the system of accounts for retail businesses devised by Mr. J. McQueen, Moat Road, Leicester.

L. W. B. (107/44).—**CRYSTOLEUM METHOD OF COLOURING PHOTOGRAPHS.**—The following are the requirements for this process:

Adhesive.	Cleansine.
Pulv. tragacanthæ ... 3j.	Balsam. canadensis ... 3j.
Spt. rectificati ... 3iij.	Ol. terebinthinæ ... 3ij.
Acidi carbolic ... 3ij.	M.
Aquæ 3vj.	Preservine.
M.S.A.	Ol. papaveris ... 3j.
	Ol. terebinthinæ ... 3ss.
	M.

The photograph is stuck down on glass (generally convex) with the adhesive and a squeegee; when quite dry, it is flooded with cleansine, which makes it transparent, and the colours applied, these being mixtures of the pigments with preservine.

H. P. (99/74).—**COLOURING SHEEP'S-FLEECE.**—Mixtures of brown umber and yellow ochre are employed for this purpose with a non-drying oil to cause the powder to adhere. The relative proportion of the earths varies according to the fancy of the shepherd.

E. Q. (100/73).—**LIQUORICE GLOBULES.**—There is a machine employed in the confectionery business for making globular sugar articles. The machine consists of a plate with half-spherical depressions, which comes in contact with a roller with corresponding holes. The sugar mass on the point of setting, or the soft extract in the case of liquorice globules, is placed on the plate, and as the roller revolves it is forced into the depressions.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," June 15, 1863.

Gossip.

At an examination meeting in the Court of Bankruptcy on the 3rd inst., the following amusing dialogue took place between the Commissioner and the bankrupt: C: You have neglected to file the required accounts?—B.: The omission has been occasioned by severe illness. C: Have you a medical certificate of the illness?—B.: No; but I have taken lots of boxes of pills, patent pills. C: Have you been confined to your bed?—B.: No, your Honour; but the pills and the gout confined me to the house. C: Well, it is a new reason for a bankrupt not being prepared with accounts that he has been swallowing a lot of quack pills. There must be an adjournment, I suppose.